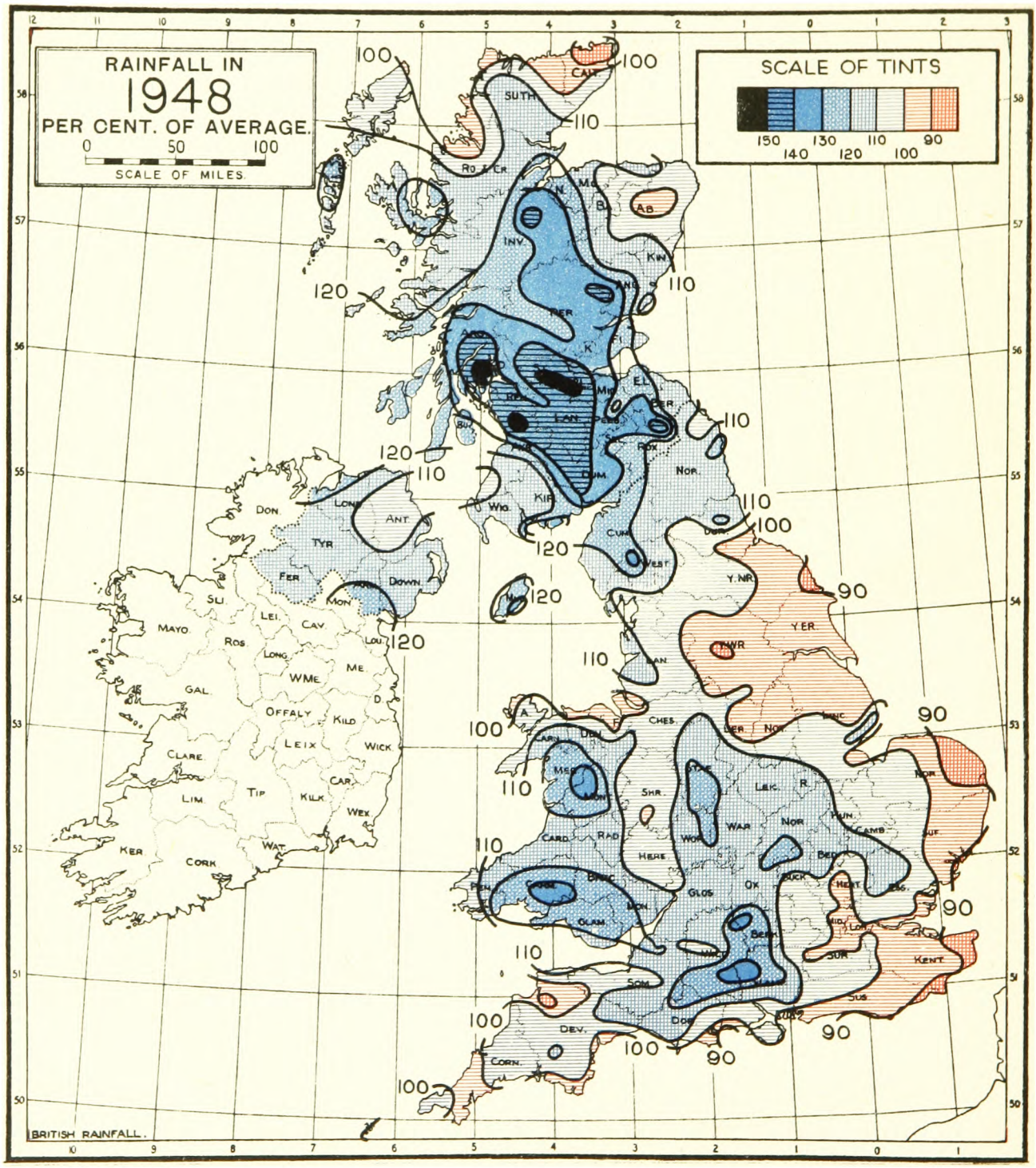
RELATION OF RAINFALL IN 1948 TO THE AVERAGE OF 1881-1915.



The area coloured Red had rainfall below the average, that coloured Blue had rainfall above the average.

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M.O. 536 AIR MINISTRY

METEOROLOGICAL OFFICE

BRITISH RAINFALL
1948

THE EIGHTY-EIGHTH ANNUAL VOLUME OF
THE BRITISH RAINFALL ORGANIZATION

Report on the

DISTRIBUTION OF RAIN

IN SPACE AND TIME OVER GREAT BRITAIN AND NORTHERN IRELAND DURING THE YEAR 1948 AS RECORDED BY ABOUT 5,000 OBSERVERS

WITH MAPS

19 JAN 1951
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1950

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BRITISH RAINFALL, 1948

PART I

1 The Work of the British Rainfall Organization

"BRITISH RAINFALL." The present publication is in the same form as that for 1947 and retains the main features of pre-war volumes, thus enabling comparison to be made between conditions in 1948 and those in earlier years. This comparison is facilitated by continuing to number the principal tables according to their sequence in the various sections. Thus in Section 8 they are numbered 8A, 8B, etc. The series of monthly, seasonal and annual percentage of average maps have been continued, the annual map appearing as a coloured plate.

The special article by Mr. L. C. W. Bonacina, which has been included as Part III in this volume, continues the author's surveys of snowfall in the British Isles published in *British Rainfall* 1927 and 1936.

LOCAL ORGANIZATIONS. For assistance in the collection of rainfall returns and for stimulating interest in weather records we are indebted to officials of various local organizations. Among these may be mentioned Mr. C. W. Boddington of the Northamptonshire Natural History Society ; Mr. R. S. Copeman of the Norfolk Rainfall Organization ; the Librarian, North Devon Athenaeum ; Mr. E. J. Kelting of the Mid-Wessex Rainfall Association ; and Mr. D. W. Bogle, who succeeded the late Mr. E. J. Stevens as Secretary of the Cornwall Rainfall Association.

Mr. Robert Burrow, Engineer and Manager of the Jersey New Waterworks Company, forwarded returns from several stations in Jersey, and Mr. W. N. McCall, Burgh Engineer of Kilmarnock, continued the collection of records in Ayrshire.

Acknowledgment is also due to the Editor of the *Hereford Times* as well as to Capt. W. N. McClean for assistance in the collection of records.

THE STAFF OF OBSERVERS. The basis of discussion of the rainfall which is presented in this volume is the collection of about 5,000 returns of rainfall received from all parts of the country. Not all of these are included in the General Table (Part II of this volume), the Table being shortened by the omission of returns from check gauges and of some records which are not complete. Returns are contributed by private persons who measure the rainfall primarily as a matter of personal interest, or by public local authorities—and especially the authorities of water undertakings—who find that a knowledge of rainfall is essential to them in their work. The goodwill of the observers who voluntarily forward copies of their observations for preservation is gratefully acknowledged. Without their co-operation the compilation of this volume would not be possible.

The total number of records printed in Part II of this volume is 4,930, an increase of 28 over 1947. As many as 331 additional records are included, while 303 records printed in *British Rainfall* 1947 have dropped out of the table.

INVESTIGATIONS. Amongst the articles published by the staff reference may be made to the following :—

" Tweed Valley Floods—Heavy Rainfall of August 11–12, 1948," by Dr. J. Glasspoole. *Meteorological Magazine* 1949, p. 3.

" Evaporation from Tanks in the British Isles," by J. Wadsworth. *Weather* 1948, p. 322.

" The Incidence of Anticyclonic Days and Spells over the British Isles," by Dr. J. E. Belasco. *Weather* 1948, p. 233.

Reference should also be made to the publication (at the end of 1949) by the Ordnance Survey in the Ministry of Town and Country Planning series, of a map in two sheets covering Great Britain on a scale of about 10 miles to 1 inch, showing the distribution of average annual rainfall 1881–1915. The original maps, on a scale of 2 miles to 1 inch, were prepared by the British Rainfall Organization during the 30 years previous to 1949, being based on the numerous records contributed by rainfall observers.

Dr. C. E. P. Brooks and Dr. J. Glasspoole continued to serve as members of the Hydrological Commission of the International Meteorological Organization.

Dr. J. Glasspoole served as a member of the working party dealing with the preparation of a section on Hydrology for the Manual of British Water Supply Practice to be published by the Institution of Water Engineers, and also on a Committee on Rainfall, Run-off and Floods appointed by the Institution of Civil Engineers.

INSPECTIONS. The scheme for the resumption of inspections of climatological stations reporting to the Meteorological Office, which was put into operation in 1947 was continued. Advice was given to the Sunderland and South Shields Water Company regarding the siting of rain-gauges for providing data for the proposed Derwent Reservoir Scheme. In connexion with a new water supply planned for Montgomeryshire, a catchment area in the upper Severn Valley was visited and sites selected for twelve new rainfall stations. Members of the Office staff in London, Edinburgh and at certain airfields also carried out inspections of rainfall stations as the opportunity arose.

INQUIRIES. Inquiries regarding rainfall in various parts of the country continued to increase in number and covered a very wide field. As in previous years they included many requests for records defining the rainfall experienced during specified periods in particular localities, the supply of estimates of the average annual and monthly rainfall over specified areas, advice on the provision of equipment and the best exposure for rain-gauges. Several inquiries from Water Authorities were concerned with the effects of the summer drought while, on the other hand, others involved the determination of rainfall over various catchment areas in connexion with flooding. Reference may also be made to the provision of rainfall maps and reports covering several counties to the Ministry of Health ; rainfall duration data for use in preparing illustrations of radar observations of rainfall for the Science Museum galleries ; various data to Birmingham University for research work on disease in strawberry plants ; statistics, maps and reports on rainfall of different areas to the Ministry of Food, the Welsh Board of Health, many County and Borough Councils, Water authorities and River Catchment Boards, County War Agricultural Committees, the Land Settlement Association, etc. etc.

Evidence has been given in Courts of Law in a variety of cases involving weather conditions and before a Select Committee of Parliament on behalf of the Promoters of the Kirkcaldy Corporation (Water) Draft Order.

Information has been supplied monthly for publication in *Water and Water Engineering* and the *Meteorological Magazine* while monthly reports on the rainfall of Great Britain and Northern Ireland have been

furnished to the British Waterworks Association and to certain Government Departments. Detailed reports were supplied each month to the Metropolitan Water Board and the Thames and Lea Conservancies. A comprehensive annual report was also prepared for the Metropolitan Water Board. The regular monthly issue of rainfall maps and data to consulting engineers, local authorities and numerous Catchment and Conservancy Boards was continued and extended.

The Office in Edinburgh reported that there was no diminution in the demand by planning and development bodies for rainfall data in connexion with water supply problems. A good deal of information was also supplied through Edinburgh to the Scottish Departments of Agriculture and Health, the Registrar General for Scotland and to a large number of private inquirers.

OBITUARY. During the twelve months ending 30th June 1949 reports were received of the deaths of 61 observers who had contributed to volumes of *British Rainfall.* Of these, 23 kept rainfall records, or were associated with relatives who kept records, for 30 years or more. A list of these is given below. In most cases the records have been maintained throughout by the same observer.

Name	Last place of observation	No. of years' records
John Dover, Esq., M.A., F.R.Met.S.	Totland Bay, Isle of Wight	60
Samuel F. Hurnard, Esq.	Lexden, Essex	60
Oswald H. Latter, Esq.	Godalming, Surrey	58
Albert Wilson, Esq., F.R.Met.S.	Carnforth, Lancashire	57
Dr. G. Ainsley Johnston	Ambleside, Westmorland	54
Dr. W. R. Grove	St. Ives, Huntingdonshire	47
J. Woodhead, Esq.	Slaithwaite, Yorkshire	45
William Garnett, Esq.	Backwell, Somerset	43
The Dowager Mrs. Maclachlan of Maclachlan	Castle Lachlan, Argyll	41
M. A. Bolton, Esq.	Oakamoor, Staffordshire	38
R. Elmhirst, Esq.	Millport, Bute	38
Right Hon. Viscount Ullswater, G.C.B.	Campsea Ashe, Suffolk	37
Mr. H. G. Harrison	Edinburgh, Midlothian	37
Egerton Macdona, Esq.	West Kirby, Cheshire	36
Miss B. G. Rogers	Buckland Brewer, Devon	35
Miss G. E. Price-Davies	Horsted Keynes, Sussex	34
G. M. Mathews, Esq., C.B.E.	Winchester, Hampshire	34
B. E. Dunbar Kilburn, Esq., F.R.Met.S.	Woodstock, Oxfordshire	34
H. Constantine, Esq.	Bournemouth, Hampshire	33
Harold Taylor, Esq., M.A.	Hassocks, Sussex	32
Sir Reginald Hobhouse, Bart.	Shepton Mallet, Somerset	30
Rev. Father J. P. Rowland, S.J.	Stonyhurst College, Lancashire	30
Lady Wilson	Kippen House, Perthshire	30

Mr. John Dover kept rainfall records at his home, Totland Bay, Isle of Wight, for 60 years. Since 1904 he had maintained a full climatological station and summaries of these observations were regularly published in the *Monthly Weather Report.* For many years Mr. Dover produced valuable annual reports containing comprehensive summaries of his observations with descriptive matter and long-period averages. He decided to give up his meteorological work owing to advancing years only a few months before his death in November 1948.

Mr. Samuel F. Hurnard, who died on 13th January 1949, made a noteworthy contribution to British meteorology by maintaining an unbroken record of rainfall at Lexden, near Colchester, over a period of 60 years. Mr. Hurnard was a valued correspondent of the Meteorological Office and a contributor

to the press. Some time ago he wrote : "The observations have been an interesting pastime, the value and enjoyment of which deepen with the passing of decades of years. There are always surprises in store for the rainfall recorder."

Mr. Oswald Hawkins Latter died on 11th October 1948 in his 85th year. He had been senior science master at Charterhouse from 1890 to 1926. On going to Charterhouse he set up a rain-gauge and other instruments in his garden and personally maintained these records up to the day of his death, a period of 58 years. In addition to a keen interest in meteorology, Mr. Latter was regarded as an expert in entomology and biology.

Mr. Albert Wilson became interested in weather recording in 1872 when, at the age of 9, he started to measure rainfall under the supervision of his father. He sent records for publication in *British Rainfall* from 1892 until his death at the age of 86 in May 1949 ; the observations were made first at Bradford and subsequently at Ilkley, Garstang, Sedbergh, Tyngroes (Caernarvon) and finally at Carnforth. With his brother, Mr. Sydney Wilson, he set up several monthly gauges on mountain sites at the turn of the century and maintained some of these records for 25 years. Mr. Wilson, a fellow of the Royal Meteorological Society and of the Linnean Society, was a keen botanist and author of *The Flora of Westmorland*, *The Altitudinal Range of British Plants*, and a number of papers on botanical and meteorological subjects.

Dr. G. Ainslie Johnston set up a rain-gauge at Ambleside in February 1895 and made regular daily readings there until his death on 4th June 1949. He thus maintained a homogeneous series of observations over a period of 54 years. The records have been incorporated in the annual volumes of *British Rainfall.*

The Right Hon. Viscount Ullswater, G.C.B., one of the outstanding Speakers of the House of Commons, who died on 27th March 1949, aged 93, was much interested in rainfall recording. Since 1912 he had caused an annual return of the observations at Campsea Ashe, near Woodbridge, Suffolk, to be sent for use in compiling the annual volumes of *British Rainfall.*

Mr. B. E. Dunbar-Kilburn was a valued correspondent and observer for 34 years. His records of rainfall duration at Sandford St. Martin, near Woodstock, have, for many years, provided useful data for the preparation of Section 6 of *British Rainfall.*

Rev. Father James Peter Rowland, who was Director of Stonyhurst College, near Blackburn from 1932 to 1947, died on Boxing Day 1948 at the age of 73. Before becoming Director he worked in the observatory for many years under his predecessor, Father O'Connor. Besides making detailed climatological observations over a period of 30 years, he had been actively engaged in meteorological research and had specialized in seismology.

Mr. William Dunbar died on 19th December 1948 at the age of 59. He had been Burgh Surveyor and Water Engineer of Kilmarnock which appointment he resigned on account of ill health a year before his death. Mr. Dunbar was deeply interested in meteorology and maintained a climatological station at his home in Kilmarnock. He also rendered valuable help in the collection of rainfall records in Ayrshire. From 1937 until his death he was a member of the Advisory Committee of the Meteorological Office, Edinburgh and in 1938–39 he served as President of the Scottish Section of the Institution of Water Engineers. He was also a past Vice-President of the Scottish Branch of the Royal Meteorological Society.

Mr. G. M. Mathews commenced recording rainfall at Foulis Court, Hampshire, in 1915. In 1929 he moved to Winchester and resumed observations there. During the second world war, Mr. Mathews was away on work for the Australian Government. In his absence the rainfall record was kept going by his neighbour, the late Major-General Sir Edward Broadbent.

2 The Distribution of Rain in Time

THE NUMBER OF RAIN-DAYS AND WET-DAYS IN 1948

TO OBTAIN a homogeneous series of statistics the following definitions have been used in *British Rainfall:*

A **rain-day** is a period of 24 hours, commencing normally at 9 a.m., during which ·01 inch, or 0·2 mm. or more of rain is recorded.

A **wet-day** is a period of 24 hours, commencing normally at 9 a.m., during which ·04 inch, or 1·0 mm. or more of rain is recorded.

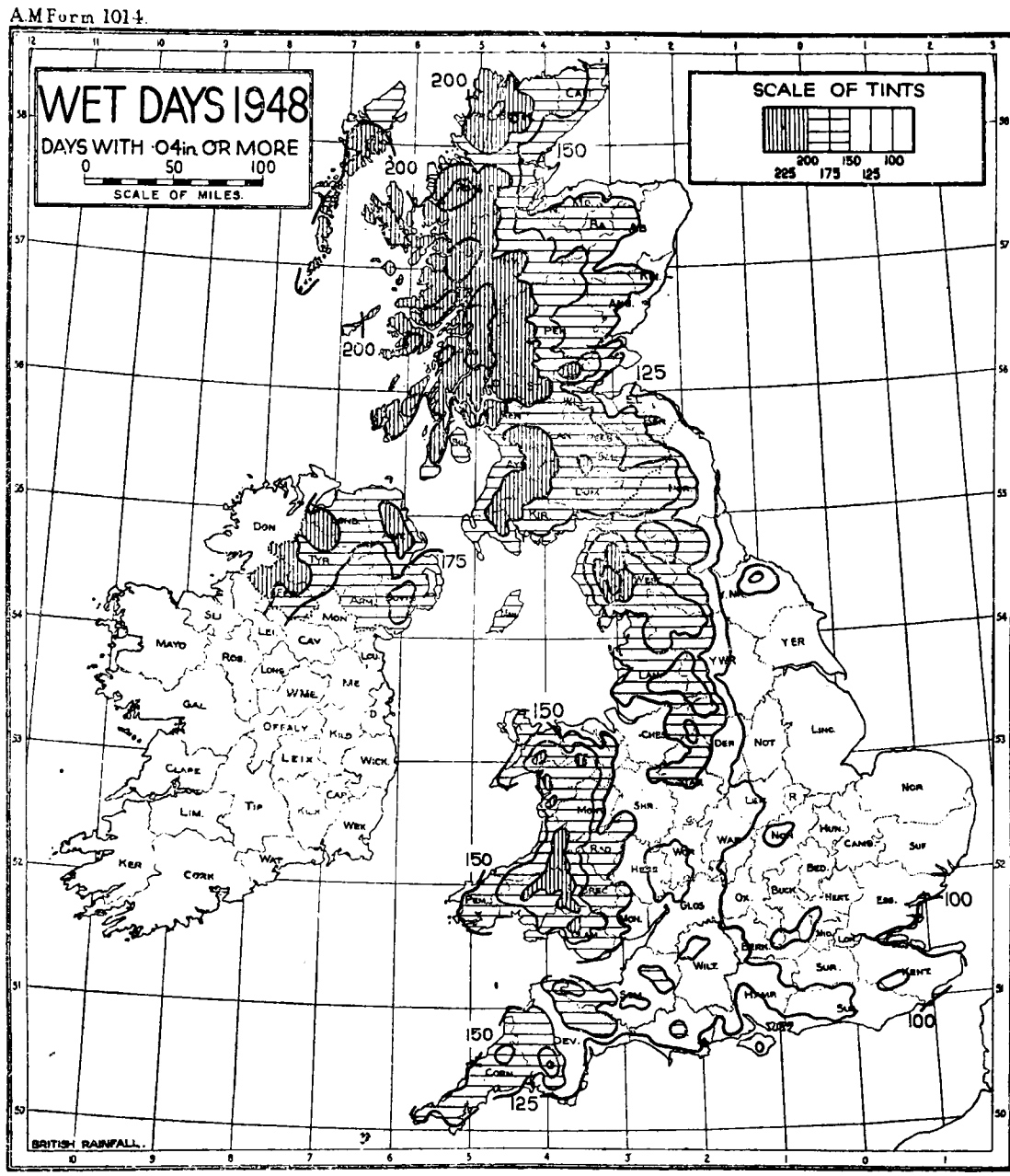
The former definition dates from the year 1865; the latter was adopted about 1917. Each of the terms "rain-day" and "wet-day" is open to criticism, the latter particularly so, since it has a different meaning in ordinary use. It must, therefore, be understood that whenever these terms are used in this publication, the meanings set out above are attached to them.

The satisfactory mapping of the annual numbers of rain-days has always presented difficulties, whereas the numbers of wet-days have proved sufficiently consistent to enable the distribution of these days to be defined. Maps showing the annual distribution of wet-days over the country have been included in *British Rainfall* since 1919. Maps showing the distribution of annual and monthly average numbers of rain-days were published in the *Quarterly Journal of the Royal Meteorological Society*, 1928, pp. 89–101, but similar maps of wet-days have not yet been prepared.

Information as to the number of rain-days and wet-days in 1948 is set out in this volume in various forms. The General Table of rainfall shows the annual numbers of rain-days and wet-days at stations where daily observations are recorded. The distribution of the number of wet-days is shown on the map reproduced on p. 6.

To study the distribution of rain-days and wet-days throughout the year, 82 stations have been selected to represent as uniformly as possible conditions over Great Britain and Northern Ireland. The same stations have been used in the preparation of Table 3C, Droughts and Dry Spells, and of Table 4C, Rain Spells and Wet Spells. The numbers of rain-days and wet-days recorded at these stations are given in Table 2B. The monthly mean values for England and Wales, Scotland and Northern Ireland are shown in the table. Computed average numbers of rain-days for the period 1881–1915 are also given for England and Wales and for Scotland for purposes of comparison. The monthly rainfall amounts for the 82 stations are included in Table 8C.

The map of the annual number of wet-days in 1948 shows a distribution which, in the



main, is similar to that in earlier years. Broadly speaking the number of wet-days increases from the south-east to the north-west and from the plains of the east coast to the mountainous regions of the west.

The number of wet-days in 1948 over England and Wales as a whole, 135, was 4 less than the average for the 31 years, 1917–1947. Scotland with 181 wet-days had 7 more than its average, a number equalled in 1943 but not exceeded since 1938 (189). Northern Ireland's total of 187 wet-days in 1948 is 10 more than the average of the 7 years, 1941–1947, for which comparable data are available.

In 1948 there were slightly fewer than 100 wet-days at many places on the Kent shore of the Thames Estuary but of the 82 selected stations (Table 2B) Shoeburyness had the least with exactly 100 wet-days. The greatest number of wet-days recorded at the selected stations was 228 at Inveraray, followed closely

by 223 at Creggan Reservoir, near Londonderry.

The general number of wet-days over England and Wales in each month for the years 1939–1948 is set out in Table 2A. The table shows a preponderance of years with a deficient number of wet-days. Thus in the 10 years only two, 1939 (142) and 1946 (146), had more than the average number of wet-days (138). Of the months, January 1948 is outstanding with 22 wet-days. The least number of wet-days in a month was 2 in August 1947.

The total number of rain-days in 1948 over England and Wales as a whole, 180, was 8 less than the average. Scotland, with 226 rain-days, had 9 more than the average. Fewer than 150 occurred in the Thames estuary and locally on the south and east coasts. Lowestoft and Shoeburyness had 142 and 146 respectively. There were more than 250 rain-days in the Scottish Highlands, the Outer Hebrides and in Northern Ireland. Londonderry recorded the largest number, viz. 283.

Over England and Wales the month having the greatest number of rain-days and wet-days was January with 26 and 22 respectively. During the past 32 years, 26 rain-days in a month over the country as a whole has been equalled only twice, i.e., in September 1918 and December 1919, and exceeded once, viz. in December 1934 when there were 27 rain-days. The dry March had only 9 rain-days of which 6 were wet-days.

In Scotland the number of rain-days and wet-days were distributed much more equally through the months than was the case in England and Wales. January had the greatest numbers (24 and 20) and May the least (14 and 11). Northern Ireland had as many as 27 rain-days and 23 wet-days in January.

Two stations, Tresco (Scilly) and Llandeussant (Carmarthen) had rain on every day in January (see also Section 4, Rain-Spells). Six stations in Table 2B had no more than 5 rain-days in March and 13 stations had only 2 or 3 wet-days in that month.

Table 2A Monthly General Number of Wet-Days (Days with ·04 inch or more) over England and Wales 1939–1948

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1939	19	10	12	12	6	10	17	10	5	14	18	9	142
1940	8	12	12	12	7	4	15	4	9	13	17	13	126
1941	13	16	11	7	9	5	10	17	4	11	14	9	126
1942	14	5	10	7	13	3	11	14	12	13	7	17	126
1943	20	8	5	8	10	10	9	14	12	12	15	8	131
1944	13	9	4	9	6	11	11	9	13	16	19	12	132
1945	13	13	6	8	13	14	8	10	11	10	5	15	126
1946	12	12	7	8	10	15	10	16	16	6	18	16	146
1947	14	8	20	11	11	11	11	2	9	5	12	12	126
1948	22	10	6	9	9	15	8	14	9	11	9	13	135
Average*	15	11	10	11	10	9	11	11	11	12	13	14	138

* Average for 30 years, 1919–1948.

Table 2B Number of Rain-days (·01 in. or more) and of Wet-days (·04 in. or more) in 1948

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	Total Rain-fall
ENGLAND AND WALES															in.
London 2	St. Pancras (Camden Square) .	22 18	12 9	8 4	12 11	10 9	18 13	8 6	14 13	9 5	10 9	10 8	12 10	145 115	23·48
Kent 1	Folkestone (Cherry Garden)..	24 21	13 9	7 5	12 10	13 10	15 10	11 7	15 12	9 6	9 7	11 9	17 12	156 118	26·26
„ 4	Edenbridge (Falconhurst) ...	22 16	13 10	6 3	11 8	12 12	17 13	9 5	18 12	9 6	10 8	9 6	18 11	154 110	32·71
Sussex 3	Worthing (Beach House Park)	23 20	12 8	8 5	11 8	11 10	16 10	11 7	14 12	10 8	12 10	9 5	17 12	154 115	25·23
Hampshire ..1	Ventnor (Royal Nat. Hosp.) .	27 24	13 10	6 4	13 7	8 7	13 9	9 7	18 16	9 6	15 11	13 9	16 13	160 123	29·60
„ ..2	Bournemouth (Vale View) ...	27 21	13 7	3 3	12 8	9 7	15 13	8 6	17 14	9 7	14 10	13 7	18 15	158 118	28·04
„ ..7	Selborne (The Wakes)	26 24	15 12	8 5	13 8	11 11	17 13	14 8	16 13	11 8	13 11	16 10	19 16	179 139	41·88
Hertford ...2	Harpenden (Rothamsted)	24 19	11 8	7 3	14 9	14 12	20 16	11 3	16 10	13 7	11 10	19 8	18 13	178 118	26·38
„ ...3	Royston (Therfield Rectory) ..	24 18	11 7	6 4	13 11	13 11	21 15	10 5	16 12	15 8	14 11	10 9	10 9	163 120	26·33
Oxford 3	Oxford (Radcliffe Met. Stn.) ..	23 21	13 7	8 4	14 10	14 11	18 14	10 6	17 12	12 7	11 9	15 8	20 12	175 121	28·64
Northants ..4	Wellingborough (Swanspool) .	24 18	12 10	6 5	11 8	13 9	19 17	12 7	17 11	10 8	14 10	15 8	14 10	167 121	26·72
Huntingdon .1	Whittlesea Mere	24 19	10 4	5 2	11 7	12 9	14 12	9 5	16 9	12 7	14 12	14 9	11 8	152 103	22·00
Essex 3	Shoeburyness	21 18	11 8	7 3	11 9	14 7	17 11	8 4	12 11	10 6	9 7	11 8	15 8	146 100	18·16
Suffolk 4	Lowestoft (Secondary School)	21 19	11 7	3 3	10 6	11 8	15 12	11 7	14 11	10 8	8 5	14 8	14 11	142 105	21·46
Norfolk.....3	Hunstanton	26 17	11 7	6 5	8 5	12 10	20 16	9 7	11 10	11 6	10 7	15 7	16 10	155 107	24·11
„ 4	Thetford Waterworks	25 20	14 6	6 3	14 9	13 10	18 15	11 8	20 14	11 8	12 8	20 7	16 9	180 117	24·71
S. Devon....5	Teignmouth (Den Gardens) ..	28 24	10 5	5 4	15 9	9 8	16 8	9 4	18 16	7 5	16 13	10 8	19 17	162 121	31·12
N. Devon ...2	Barnstaple (N.Dev.Athenaeum)	28 27	13 9	7 6	14 11	9 8	17 12	12 6	20 15	11 10	17 15	13 13	18 16	179 148	33·33
Cornwall....1	Bude (School House)	29 26	14 9	10 8	16 14	9 8	21 13	13 10	18 15	14 8	18 16	13 10	19 19	194 156	35·97
„ 2	St. Austell (Trevarna)	29 28	18 12	13 7	17 14	7 6	21 11	17 14	18 17	15 9	19 18	14 10	20 19	208 165	47·79
Cornwall.. .4	Scilly (Tresco Abbey).....	31 25	22 10	14 6	15 14	9 8	18 12	13 9	17 13	12 6	20 16	13 10	21 19	205 148	32·93
Somerset ...1	Bath (Henrietta Park)	26 24	16 11	7 5	13 10	12 9	18 13	9 5	15 12	11 6	14 10	12 10	17 15	170 130	32·34
„ ...3	Trull (Wayside).....	28 25	16 8	8 3	13 12	12 10	18 12	14 7	17 10	11 5	19 11	14 9	18 14	188 126	34·92
Hereford ...1	Ross-on-Wye	23 21	11 7	7 5	14 11	11 10	17 10	7 4	17 14	9 6	14 9	14 7	19 15	163 119	30·84
Shropshire ..4	Shifnal (Hatton Grange)	26 22	11 9	6 6	12 9	12 9	18 17	10 7	13 13	11 8	12 7	12 10	17 13	160 130	30·00
Warwick ...1	Warwick (Mill Street).....	26 20	11 7	9 6	12 9	11 9	17 13	12 8	16 12	10 7	14 12	18 10	15 9	171 122	27·86
Leicester ...4	Loughbor'gh(Nanpantan Res.)	26 20	15 11	9 6	14 11	11 10	19 12	9 6	17 13	9 8	11 7	14 8	16 9	170 121	31·42
Lincoln 3	Horncastle	27 21	14 9	7 4	10 8	13 9	21 12	10 9	21 11	12 8	12 7	9 5	9 8	165 111	24·34
Nottingham 5	Mansfield (Carr Bank)	23 21	14 10	5 3	12 9	11 10	20 14	11 6	16 12	11 7	9 8	12 9	18 10	162 119	25·49
Cheshire 2	Northwich (Hunts Lock)	27 23	14 9	7 3	11 6	11 9	20 16	15 10	16 13	17 10	20 11	15 12	17 15	190 137	31·66
Cheshire 3	Birkenhead (Bidston Obsy.) ..	28 22	8 6	8 5	16 6	9 5	21 17	14 10	15 11	16 7	16 11	14 12	16 15	181 127	26·16
N. Lancs. ...5	Blackpool (Stanley Park)	26 21	13 9	12 7	15 8	8 7	22 20	15 9	15 10	18 13	17 12	17 14	18 13	196 143	37·17
Yorks., W.R. 8	Wakefield (Clarence Park) ...	27 23	15 10	9 5	14 9	12 8	24 13	13 7	17 12	13 7	19 9	20 7	18 11	201 121	23·17

Table 2B Number of Rain-days (·01 in. or more) and of Wet-days (·04 in. or more) in 1948 (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	Total Rainfall
ENGLAND AND WALES (*continued*)															in.
Yorks., E.R. 3	Hull (Pearson Park)	26 19	15 8	6 5	12 8	9 6	23 17	12 5	15 11	9 7	8 7	11 7	16 9	162 109	24·64
„ N.R. 2	Felixkirk (Mount St. John)	27 22	18 12	7 3	10 7	10 7	23 18	12 8	18 13	16 8	11 7	13 7	19 12	184 124	26·64
„ N.R. 5	Scarborough	24 19	16 11	6 4	7 6	11 9	20 13	13 7	16 12	13 9	13 6	10 6	16 11	165 113	22·30
North'land .3	Newcastle (Leazes Park)	28 23	19 13	8 5	11 7	12 9	17 14	12 5	23 16	13 9	13 9	13 8	13 11	182 129	30·64
„ .6	Ilderton (Lilburn Tower Gdns.)	26 22	15 11	5 3	8 6	11 8	17 17	9 7	19 17	12 9	15 11	13 9	15 14	165 134	32·35
Cumberland 1	Geltsdale	26 21	17 14	11 9	19 14	11 9	23 21	17 12	20 19	23 20	24 16	16 14	21 16	228 185	42·45
„ 2	Keswick (High Hill)	29 26	17 14	13 11	16 12	7 5	22 20	19 16	20 16	22 21	22 18	15 15	19 19	221 193	67·47
Cumberland 3	Ravenglass (The Grove)	24 18	14 10	12 9	17 16	7 4	23 21	13 11	17 17	18 15	20 18	17 16	16 15	198 170	48·10
Glamorgan .6	Treherbert (Tyn-y-waun)	30 25	19 15	16 12	14 14	12 9	20 20	18 13	23 18	19 15	19 18	20 15	19 17	229 191	111·21
Carmarthen .2	Llanddeusant (Pontcrynfe)	31 24	18 13	14 12	17 13	11 9	26 17	17 11	23 18	20 13	22 16	20 12	20 17	239 175	73·16
Pembroke . .4	St. Ann's Head (C. Guard Stn.)	23 21	15 9	14 8	15 11	6 6	17 12	12 9	18 15	16 11	18 14	16 12	18 17	188 145	40·24
Cardigan. . . .2	Aberystwyth (P.B.S.)	28 22	15 9	13 8	17 11	12 7	23 18	18 13	22 20	22 15	20 16	17 14	20 15	227 168	45·46
Radnor 1	Birmingham W.W. (Tyrm'dd)	30 29	20 16	13 9	17 14	13 10	22 17	17 10	22 19	19 12	19 14	20 14	23 17	235 181	71·40
Merioneth . .1	Bala (Tegid Street)	29 27	16 14	10 10	14 13	13 10	22 19	15 11	19 14	22 14	19 12	19 17	20 18	218 179	58·45
Anglesey	Llanerchymedd (Llwydiarth Es.)	25 24	17 15	13 12	15 11	9 6	24 19	15 13	19 14	21 20	16 14	15 14	18 15	207 177	40·16
England and Wales	**Mean of 48 Stations**	**26** 22	**14** 10	**9** 6	**13** 9	**11** 9	**19** 15	**12** 8	**17** 14	**13** 9	**15** 11	**14** 9	**17** 13	**180** 135	..
	Average (1881-1915)	**18** ..	**15** ..	**16** ..	**14** ..	**14** ..	**13** ..	**14** ..	**16** ..	**13** ..	**18** ..	**18** ..	**19** ..	**188** ..	..
ISLE OF MAN	Douglas (Borough Cemetery)	24 23	13 9	15 10	13 10	12 9	17 13	12 8	16 13	19 15	17 15	19 14	17 17	194 156	53·94
SCOTLAND															
Kirkcudb'ght 5	Lochrutton (Dumfries W.W.)	27 24	18 12	16 13	18 14	13 9	19 19	16 13	21 18	23 18	24 19	17 14	19 19	231 192	61·17
Peebles 2	Stobo Castle	26 24	19 14	12 10	17 13	16 11	23 19	18 12	23 17	26 15	23 15	22 11	23 16	248 177	47·16
Berwick. 4	Marchmont House	24 20	20 13	11 4	13 6	12 8	21 18	12 8	22 15	17 11	16 14	18 12	16 13	202 142	37·43
Lanark 5	Strathaven (Glengavel Res.)	27 26	18 17	15 11	19 17	13 8	22 21	14 12	23 18	28 25	23 21	15 13	20 18	237 207	72·16
Ayr 8	Colmonell (Knockdolian)	26 25	9 9	14 12	11 9	5 5	19 18	12 9	14 13	21 20	22 21	14 13	19 19	186 173	45·60
Renfrew 3	Greenock (Prospect Hill)	27 24	18 16	18 16	20 16	8 7	21 19	15 12	20 17	24 22	24 21	22 14	21 19	238 203	83·52
Stirling 1	Falkirk (Arnotdale)	26 24	19 16	17 12	13 8	18 13	20 16	15 14	23 19	23 18	22 14	16 11	18 16	230 181	51·48
Argyll 11	Inveraray Castle Gardens	26 24	17 17	20 17	23 18	11 11	21 20	15 14	19 18	28 27	23 23	21 19	20 20	244 228	114·05
„ 14	Islay (Eallabus)	28 28	17 17	16 16	15 13	9 8	16 16	17 14	18 18	24 22	25 24	18 16	21 18	224 210	60·34
„ 14	Mull (Gruline)	27 25	19 17	19 15	20 17	13 9	20 17	16 14	20 15	30 26	25 25	23 18	22 21	254 219	92·91

Table 2B Number of Rain-days (·01 in. or more) and of Wet-days (·04 in. or more) in 1948. (*concluded*)

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Year	Total Rain-fall.
SCOTLAND (*continued*)															in.
Argyll 14	Tiree	24 22	17 13	18 16	20 12	12 10	16 16	16 13	18 13	25 20	25 22	22 17	23 20	236 194	55·28
Fife 3	Leuchars Airfield	24 17	18 15	7 4	9 4	17 14	18 13	16 11	19 17	17 9	16 13	13 7	18 16	192 140	31·12
Perth 11	Aberfeldy (Dall Avon)	27 25	18 14	15 13	13 9	16 12	20 16	13 7	19 18	21 15	20 13	19 9	21 19	222 170	48·87
Aberdeen ...1	Balmoral Castle Gardens	25 19	20 13	11 9	12 9	16 11	19 15	15 10	21 16	20 7	18 12	13 8	19 16	209 145	36·48
,, ...2	Dyce (Craibstone)	20 18	16 10	6 5	12 6	17 14	20 15	17 15	19 17	17 9	16 14	12 8	15 11	187 142	34·57
,, ...4	Peterhead (Forehill Works) ..	24 17	13 7	8 3	9 6	15 12	18 14	18 15	14 12	19 13	22 19	14 8	14 10	188 136	29·05
Moray 2	Fochabers (Gordon Castle)...	13 9	13 6	8 4	9 7	14 9	16 14	18 14	17 17	17 13	19 15	15 13	16 13	175 134	31·19
Inverness ...2	Dalwhinnie	18 17	19 17	13 12	16 11	16 15	19 18	14 14	18 17	20 20	21 19	16 16	21 20	211 196	62·51
,, ...6	Loch Ness (Garthbeg)	21 17	18 17	16 11	19 13	20 13	22 18	19 16	24 19	26 18	25 20	21 16	22 20	253 198	57·84
,, ..17	Fort William (Teviot)	28 21	18 14	20 18	21 18	14 8	22 20	18 15	18 14	29 25	26 22	23 17	21 20	258 212	98·36
Inverness ..18	Skye (Portree)	24 21	16 15	20 19	20 17	13 10	18 15	20 16	16 15	29 26	26 24	21 20	23 20	246 218	87·45
R'&Cromarty 3	Fortrose	20 11	20 15	12 6	18 9	18 13	21 12	18 11	22 19	23 10	22 10	16 8	19 13	229 137	29·76
,, 7	Ullapool	18 13	18 16	16 13	16 13	15 9	20 12	22 17	19 17	25 21	24 21	18 15	19 13	230 180	41·81
,, 10	Stornoway Airfield	23 21	20 16	22 15	20 16	18 8	16 13	20 12	20 13	29 24	24 22	23 15	25 20	260 195	48·92
Sutherland ..3	Kinbrace (Auchintoul)	26 17	20 16	18 11	20 13	22 16	26 14	23 12	18 11	27 13	28 21	21 13	20 16	269 173	39·84
,, ..5	Loch More (Achfary).....	22 18	19 18	20 17	17 17	12 10	20 18	20 19	15 14	26 26	21 21	20 19	19 18	231 215	85·02
Caithness ...3	Thurso (Buckies).....	24 22	18 13	13 10	13 11	16 15	14 11	19 14	18 15	20 14	24 22	21 17	18 17	218 181	32·57
Scotland	**Mean of 27 Stations**	**24** 20	**18** 14	**15** 11	**16** 12	**14** 11	**20** 16	**17** 13	**19** 16	**23** 18	**22** 19	**18** 14	**20** 17	**226** 181	..
	Average (1881-1915)	**20** ..	**18** ..	**19** ..	**16** ..	**16** ..	**15** ..	**18** ..	**19** ..	**17** ..	**19** ..	**19** ..	**21** ..	**217** ..	..
NORTHERN IRELAND															
Fermanagh .1	Newtownbutler (Crom Castle)	30 20	16 14	18 14	18 12	16 10	22 18	19 13	21 15	23 17	21 12	21 14	23 20	248 179	44·09
Armagh 5	Armagh Observatory	23 23	14 10	16 10	16 15	11 9	20 19	12 11	22 16	19 17	16 15	15 13	20 19	204 177	38·27
Antrim 1	Belfast (Queen's University) .	25 22	13 9	14 10	15 10	9 8	17 15	11 8	19 15	21 20	18 14	16 13	19 18	197 162	38·11
,, ...5	Ballymena (Harryville)	27 22	19 11	16 11	15 11	11 7	20 15	19 14	22 20	26 17	21 15	19 13	22 20	237 176	42·47
Londond'ry .5	Londonderry (Creggan Res.)..	30 26	20 14	19 18	25 14	19 10	23 19	24 20	26 23	29 25	25 19	20 15	23 20	283 223	50·98
Tyrone 3	Omagh (Edenfel)	27 25	18 13	17 16	18 15	15 9	22 19	19 14	25 19	25 22	20 17	17 13	21 20	244 202	45·13
Northern Ireland	**Mean of 6 Stations**	**27** 23	**17** 12	**17** 13	**18** 13	**13** 9	**21** 18	**18** 13	**22** 18	**24** 20	**20** 15	**18** 13	**21** 20	**236** 187	..

3 Absolute Droughts, Partial Droughts and Dry Spells in 1948

THE FOLLOWING definitions have been used in *British Rainfall* in order to obtain a homogeneous series of statistics :

An **absolute drought** is a period of at least 15 consecutive days to none of which is credited ·01 inch of rain or more.

A **partial drought** is a period of at least 29 consecutive days, the mean daily rainfall of which does not exceed ·01 inch.

A **dry spell** is a period of at least 15 consecutive days to none of which is credited ·04 inch of rain or more.

These terms are used in *British Rainfall* only in the senses stated. More concise definitions of two of these terms would be:—An *absolute drought* is a period of at least 15 days, none of which is a rain-day; a *dry spell* is a period of at least 15 days, none of which is a wet-day. The definitions of absolute drought and partial drought were introduced in *British Rainfall*, 1887, while that of dry spell was first used in *British Rainfall*, 1919.

Details are given in Table 3C of the absolute droughts, partial droughts and dry spells which occurred at the 82 selected stations of Table 2B. The monthly totals at these stations are included in Table 8C.

The names of 16 stations—12 of them in Scotland—at which no droughts or dry spells were recorded are omitted from Table 3C.

In Tables 3A and 3B, the total numbers of droughts and dry spells recorded at the 82 stations in 1948 are compared with those in the five preceding years. The numbers of absolute droughts in 1948 (29), of partial droughts (44) and of dry spells (107) are each fewer than in any year since 1944.

Of the 29 droughts listed in Table 3C, 11 occurred between February 22 and March 16 and of these 10 were in England and one in Scotland at Colmonell, Ayrshire.

The only other widespread drought fell between May 4 and 24 ; this was recorded at 6 stations in England, 4 in Wales and one in Scotland (Eallabus, Islay). There was a 15 day drought in East Anglia from July 18 to August 1. Of the 27 Scottish stations only the two already mentioned, Colmonell and Eallabus, registered a drought in 1948. None of the six stations in Northern Ireland had a drought. The longest drought of the year was of 23 days duration at Lowestoft.

Of the 44 partial droughts in 1948, 38 occurred between February 4 and April 5 and the remaining 6 between September 13 and October 13. The earlier of these two partial droughts occurred to the south of a line drawn from the Bristol Channel to Flamborough Head and also along the east coast as far north as Morayshire and in Northern Ireland. The September–October partial drought was confined to south-east England. The longest partial drought at the selected stations was 54 days, February 4 to March 28, and was recorded at Bournemouth and Teignmouth.

The outstanding dry spell was that during February–March. It accounts for 52 of the 107 spells listed in Table 3C. The only large areas which missed this dry spell were Wales

—east of the Cambrian mountains—the west Midlands and central Scotland. A dry spell between May 4 and 29 was reported from 22 stations widely distributed over the whole country. Twelve stations recorded dry spells between July 18 and August 4, 9 between September 13 and October 11 and 10 stations had dry spells up to 19 days duration between November 17 and December 7. In all three cases the areas mainly affected were in the east of Great Britain. Whittlesea Mere, in Huntingdon, recorded the longest dry spell of the year, viz. 32 days from February 13 to March 15. Only two stations, Hunstanton and Scarborough, had so many as 4 dry spells in 1948.

Table 3A Droughts at 82 Stations, 1943–1948

Year	ABSOLUTE DROUGHTS*				PARTIAL DROUGHTS†			
	Number at 82 Stations	Mean Duration	Longest	Stations without one	Number at 82 Stations	Mean Duration	Longest	Stations without one
		Days	Days			Days	Days	
1943	61	21	41	47	50	48	79	34
1944	25	17	21	62	42	41	66	52
1945	33	19	24	55	58	33	44	41
1946	57	17	25	36	50	34	59	42
1947	114	25	44	3	128	43	103	3
1948	29	17	23	57	44	38	54	44

* 15 days without a rain-day

† 29 days averaging not more than ·01 inch

Table 3B Dry Spells‡ at 82 Stations, 1943–1948

Year	Number at 82 Stations	Mean Duration	Longest Spell	Number of Stations with			
				None	1 or 2	3 or 4	5 or more
		Days	Days				
1943	129	22	47	28	27	27	0
1944	96	19	37	41	27	9	5
1945	125	20	35	14	52	16	0
1946	132	18	29	10	60	12	0
1947	179	25	53	1	51	30	0
1948	107	19	32	18	55	9	0

‡ 15 days without a wet-day

Table 3c Droughts and Dry Spells in 1948

County and River Division	Station	Absolute Droughts			Partial Droughts				Dry Spells			
		Began	Ended	Lasted	Began	Ended	Lasted	Rain	Began	Ended	Lasted	Rain
ENGLAND AND WALES				days			days	in.			days	in.
London 2	St. Pancras (Camden Square) ..	..	..	..	Feb. 22	Mar. 30	38	·31	Feb. 22	Mar. 15	23	·01
		..	..	..	Sept. 13	Oct. 11	29	·25	..	..	..	..
Kent 1	Folkestone (Cherry Garden) ..	..	..	..	Feb. 13	Mar. 28	45	·43	Feb. 22	Mar. 15	23	·03
		..	..	..	..	..	..	..	July 18	Aug. 2	16	·03
		Sept. 13	Sept. 27	15	Sept. 13	Oct. 13	31	·29	Sept. 13	Sept. 27	15	·00
„ 4	Edenbridge (Falconhurst)	Feb. 22	Mar. 14	22	Feb. 22	Mar. 30	38	·37	Feb. 22	Mar. 16	24	·01
		..	..	..	..	..	..	..	Nov. 17	Dec. 1	15	·08
Sussex 3	Worthing (Beach House Park) .	..	..	..	Feb. 20	Mar. 28	38	·29	Feb. 22	Mar. 14	22	·01
		..	..	..	..	..	..	..	May 5	May 22	18	·01
		..	..	..	Sept. 13	Oct. 13	31	·27	..	..	..	..
Hampshire 1	Ventnor (Royal National Hosp.)	..	..	..	Feb. 22	Mar. 30	38	·26	Feb. 23	Mar. 14	21	·04
		May 4	May 22	19	..	..	..	..	May 4	May 22	19	·00
„ 2	Bournemouth (Vale View)	Feb. 29	Mar. 16	17	Feb. 4	Mar. 28	54	·51	Feb. 29	Mar. 16	17	·00
		May 4	May 22	19	..	..	..	..	May 4	May 22	19	·00
„ 7	Selborne (The Wakes)	..	..	..	Feb. 23	Mar. 28	35	·31	Feb. 23	Mar. 16	23	·01
		May 5	May 22	18	..	..	..	..	May 5	May 22	18	·00
Hertford 2	Harpenden (Rothamsted)	..	..	..	Feb. 12	Mar. 15	33	·33	Feb. 22	Mar. 15	23	·02
		..	..	..	..	..	..	..	July 18	Aug. 1	15	·05
„ 3	Royston (Therfield Rectory) ..	..	..	..	Feb. 7	Mar. 15	38	·34	Feb. 13	Mar. 6	23	·06
		..	..	..	..	..	..	..	July 18	Aug. 1	15	·04
		Dec. 14	Dec. 29	16	..	..	..	..	Dec. 14	Dec. 29	16	·00
Oxford 3	Oxford (Radcliffe Met. Stn.) ..	..	..	..	Feb. 7	Mar. 28	51	·50	Feb. 29	Mar. 15	16	·02
		..	..	..	..	..	..	..	July 18	Aug. 1	15	·01
Northampton..4	Wellingborough (Swanspool) ..	..	..	..	Feb. 13	Mar. 15	32	·21	..	..	..	..
Huntingdon ...1	Whittlesea Mere	..	..	..	Feb. 13	April 1	49	·48	Feb. 13	Mar. 15	32	·07
		May 6	May 21	16	..	..	..	..	May 5	May 22	18	·02
		..	..	..	..	..	..	..	Sept. 24	Oct. 9	16	·02
Essex 3	Shoeburyness	..	..	..	Feb. 22	Mar. 30	38	·30	..	..	..	..
		July 18	Aug. 1	15	..	..	..	..	July 18	Aug. 1	15	·00
		..	..	..	Sept. 13	Oct. 13	31	·24	..	..	..	..
Suffolk 4	Lowestoft (Secondary School) .	Feb. 22	Mar. 15	23	Feb. 14	Mar. 30	46	·44	Feb. 20	Mar. 15	25	·02
		July 18	Aug. 1	15	..	..	..	..	July 18	Aug. 1	15	·00
		..	..	..	Sept. 13	Oct. 11	29	·19	Sept. 24	Oct. 11	18	·06

Table 3c Droughts and Dry Spells in 1948 (*continued*)

County and River Division	Station	Absolute Droughts			Partial Droughts				Dry Spells			
		Began	Ended	Lasted	Began	Ended	Lasted	Rain	Began	Ended	Lasted	Rain
				days			days	in.			days	in.
Norfolk.....3	Hunstanton	Feb. 22	Mar. 7	15	Feb. 13	Mar. 30	47	·47	Feb. 20	Mar. 15	25	·07
		July 18	Aug. 1	15	..	..	..	..	July 18	Aug. 1	15	·00
		..	..	..	Sept. 13	Oct. 11	29	·19	Sept. 24	Oct. 10	17	·03
		..	..	..	..	..	..	..	Nov. 22	Dec. 7	16	·08
,, ...4	Thetford Waterworks	..	..	..	Feb. 14	Mar. 15	31	·13	Feb. 14	Mar. 15	31	·13
		..	..	..	..	..	..	..	July 18	Aug. 1	15	·01
S. Devon 5	Teignmouth (Den Gardens) ...	..	..	..	Feb. 4	Mar. 28	54	·52	Feb. 6	Feb. 26	21	·06
		Feb. 29	Mar. 16	17	..	..	..	..	Feb. 28	Mar. 16	18	·02
N. Devon 2	Barnstaple (N. Dev. Athenaeum)	Feb. 28	Mar. 14	16	Feb. 10	Mar. 27	47	·47	Feb. 22	Mar. 14	22	·02
Cornwall.....1	Bude (School House)	Feb. 28	Mar. 14	16	Feb. 15	Mar. 27	42	·39	Feb. 22	Mar. 14	22	·01
,, ...2	St. Austell (Trevarna).....	..	..	..	Feb. 12	Mar. 14	32	·31	Feb. 29	Mar. 14	15	·02
		..	..	..	..	..	..	..	May 4	May 22	19	·02
,, ...4	Tresco Abbey	..	..	..	..	..	..	..	Feb. 29	Mar. 14	15	·04
Somerset 1	Bath (Henrietta Park)	Feb. 28	Mar. 14	16	Feb. 8	Mar. 14	36	·36	Feb. 22	Mar. 14	22	·04
,, ...3	Trull (Wayside)	..	..	..	Feb. 12	Mar. 16	34	·33	Feb. 28	Mar. 16	18	·06
Hereford 1	Ross-on-Wye	..	..	..	Feb. 13	Mar. 15	32	·32	..	..	..	..
		..	.	..	..	..	..	..	Nov. 17	Dec. 1	15	·11
Shropshire 4	Shifnal (Hatton Grange)	..	.	..	..	..	..	..	Sept. 23	Oct. 10	18	·03
Warwick 1	Warwick (Mill Street)	..	..	..	Feb. 13	Mar. 16	33	·18	..	..	.	..
Leicester 4	Loughborough (Nanpantan Res.)	..	.	..	Feb. 13	Mar. 15	32	·28	..	..	..	..
		..	..	..	..	..	..	..	July 18	Aug. 1	15	·05
Lincoln 3	Horncastle	..	..	..	Feb. 22	April 1	40	·40	..	..	..	..
		Nov. 21	Dec. 5	15	..	..	..	..	Nov. 17	Dec. 5	19	·04
Nottingham ...5	Mansfield (Carr Bank)	..	..	..	Feb. 21	Mar. 30	39	·36	Feb. 22	Mar. 16	24	·03
		..	..	..	..	..	..	..	July 18	Aug. 1	15	·06
		..	..	..	..	..	..	..	Nov. 20	Dec. 4	15	·05
Cheshire 2	Northwich (Hunts Lock)	..	..	..	Feb. 13	Mar. 30	47	·38	Feb. 13	Mar. 6	23	·09
		..	..	..	..	..	..	..	Mar. 8	Mar. 28	21	·07
		..	..	..	..	..	..	..	Sept. 24	Oct. 10	17	·06
,, ...3	Birkenhead (Bidston Obsy.) ...	Feb. 13	Mar. 2	19	Feb. 13	Mar. 28	45	·43	Feb. 13	Mar. 15	32	·06
		May 6	May 21	16	..	..	..	..	May 5	May 22	18	·03
N. Lancs.....5	Blackpool (Stanley Park)	..	..	..	..	..	..	..	Feb. 14	Mar. 6	22	·10

Table 3c Droughts and Dry Spells in 1948 (*continued*)

County and River Division	Station	Absolute Droughts			Partial Droughts				Dry Spells			
		Began	Ended	Lasted	Began	Ended	Lasted	Rain	Began	Ended	Lasted	Rain
				days			days	in.			days	in.
Yorks. W.R. ..8	Wakefield (Clarence Park).....	..	..	..	..	..	..	..	July 18	Aug. 4	18	·11
		..	..	..	..	..	..	..	Nov. 20	Dec. 5	16	·16
„ E.R. ...3	Hull (Pearson Park)	Sept. 24	Oct. 10	17	..	..	..	..	Sept. 15	Oct. 10	26	·03
		..	..	..	..	..	..	..	Nov. 20	Dec. 6	17	·06
„ N.R. ..2	Felixkirk (Mount St. John) ...	..	..	..	..	..	..	..	Feb. 22	Mar. 16	24	·09
		..	..	..	..	..	..	..	Dec. 14	Dec. 28	15	·10
„ N.R. ..5	Scarborough	..	..	..	Feb. 15	Mar. 16	31	·29	Feb. 21	Mar. 6	15	·06
		..	..	..	..	..	..	..	July 17	Aug. 1	16	·04
		..	..	..	..	..	..	..	Sept. 21	Oct. 10	20	·05
		..	..	..	..	..	..	..	Nov. 17	Dec. 2	16	·09
Northumber- 3	Newcastle (Leazes Park)	..	..	..	..	..	..	..	Feb. 25	Mar. 16	21	·02
land		..	..	..	..	..	..	..	Sept. 16	Sept. 30	15	·02
„ 6	Ilderton (Lilburn Tower Gdns.)	Feb. 24	Mar. 14	20	Feb. 9	Mar. 28	49	·48	Feb. 24	Mar. 14	20	·00
		..	..	..	..	..	..	..	May 6	May 21	16	·02
Cumberland ..2	Keswick (High Hill)	..	..	..	..	..	..	..	Feb. 15	Mar. 6	21	·05
		May 6	May 21	16	..	..	..	..	May 6	May 29	24	·06
„ ..3	Ravenglass (The Grove)	..	..	..	..	..	..	..	Feb. 13	Mar. 1	18	·06
		May 6	May 24	19	..	..	..	..	May 5	May 29	25	·02
Carmarthen ...2	Llanddeusant (Pontcrynfe)	May 5	May 21	17	..	..	..	..	May 4	May 21	18	·03
Pembroke 4	St. Ann's Head (C. Guard Stn.)	..	..	..	..	..	..	..	Feb. 15	Mar. 6	21	·13
		May 4	May 21	18	..	..	..	..	May 4	May 21	18	·00
Cardigan.....2	Aberystwyth (P.B.S.)	..	..	..	..	..	..	..	Feb. 13	Mar. 5	22	·07
		..	..	..	..	..	..	..	May 4	May 21	18	·04
Merioneth 1	Bala (Tegid Street)	..	..	..	..	..	..	..	May 5	May 21	17	·02
Anglesey	Llanerchymedd (Llwydiarth Esgob)	May 5	May 21	17	..	..	..	..	May 4	May 21	18	·03
Isle of Man	Douglas (Borough Cemetery) .	..	..	..	..	..	..	..	Feb. 13	Mar. 5	22	·11
		..	..	..	..	..	..	..	May 6	May 21	16	·01

Table 3c Droughts and Dry Spells in 1948 (*continued*)

County and River Division	Station	Absolute Droughts			Partial Droughts				Dry Spells			
		Began	Ended	Lasted	Began	Ended	Lasted	Rain	Began	Ended	Lasted	Rain
SCOTLAND				days			days	in.			days	in.
Kirkcudbright .5	Lochrutton (Dumfries W.W.) .	..	..	..	..	..	..	..	Feb. 15	Mar. 2	17	·09
Berwick.....4	Marchmont House	..	..	..	Feb. 24	Mar. 28	34	·27	Feb. 25	Mar. 14	19	·04
Ayr 8	Colmonell (Knockdolian)	Feb. 13	Mar. 5	22	..	..	..	..	Feb. 13	Mar. 5	22	·00
Argyll 14	Islay (Eallabus)	May 15	May 29	15	..	..	..	..	May 15	May 29	15	·00
„ 14	Tiree	..	..	..	..	..	..	..	Feb. 15	Mar. 1	16	·06
Fife 3	Leuchars Airfield	..	..	..	Feb. 21	Mar. 28	37	·37	Feb. 23	Mar. 14	21	·06
Aberdeen 1	Balmoral Castle Gardens.....	..	..	..	..	..	..	..	May 6	May 21	16	·06
„ 2	Dyce (Craibstone)	..	..	..	Feb. 21	Mar. 30	39	·39	Mar. 8	Mar. 22	15	·02
„ 4	Peterhead (Forehill Works) ...	..	..	..	Feb. 15	April 5	51	·50	Feb. 20	Mar. 20	30	·09
		..	..	..	..	..	..	..	Nov. 18	Dec. 4	17	·06
Moray 2	Fochabers (Gordon Castle) ...	..	..	..	Feb. 15	Mar. 18	33	·32	Feb. 22	Mar. 14	22	·06
		..	..	..	..	..	..	..	May 7	May 21	15	·03
		..	..	..	..	..	..	..	Nov. 18	Dec. 2	15	·03
Inverness 17	Fort William (Teviot).....	..	..	..	..	..	..	..	Feb. 15	Mar. 1	16	·06
„ 18	Skye (Portree)	..	..	..	..	..	..	..	Feb. 16	Mar. 1	15	·01
Ross and Cromarty 3	Fortrose	..	..	..	..	..	..	..	Feb. 22	Mar. 14	22	·10
„ 7	Ullapool	..	..	..	..	..	..	..	May 5	May 22	18	·05
Sutherland 3	Kinbrace (Auchintoul)	..	..	..	..	..	..	..	Feb. 22	Mar. 8	16	·04
NORTHERN IRELAND												
Armagh 5	Armagh Observatory	..	..	..	Feb. 13	Mar. 14	31	·30	Feb. 13	Mar. 5	22	·09
		..	..	..	..	..	..	..	May 5	May 23	19	·01
Antrim 1	Belfast (Queen's University) ...	..	..	..	Feb. 13	Mar. 16	33	·25	Feb. 13	Mar. 1	18	·04
„ 5	Ballymena (Harryville)	..	..	..	..	..	..	..	May 5	May 22	18	·04
Londonderry ..5	Londonderry (Creggan Res.) ..	..	..	..	..	..	..	..	Feb. 15	Mar. 1	16	·10
Tyrone 3	Omagh (Edenfel)	..	..	..	..	..	..	..	Feb. 15	Mar. 1	16	·10

4 Rain Spells and Wet Spells in 1948

THE definitions of the terms "rain spell" and "wet spell" as used in this section, are analogous to those of the terms "absolute drought" and "dry spell" which are used in the previous section. Thus:

A **rain spell** is a period of at least 15 consecutive days to each of which is credited ·01 inch of rain or more.

A **wet spell** is a period of at least 15 consecutive days to each of which is credited ·04 inch of rain or more.

In other words, a *rain spell* contains at least 15 consecutive rain-days and a *wet spell* contains at least 15 consecutive wet days.

Table 4C contains particulars of all rain spells and wet spells during 1948 which were reported from the 82 selected stations of Table 2B. Stations from which no rain spells or wet spells were reported are omitted from this table. The number of stations omitted is 37, of which 28 are in England.

The dates of commencement of rain spells and wet spells which began in December 1947 are given in the Form "24, xii'47". None of these were of sufficient duration in 1947 to qualify for inclusion in Table 4C for that year ; all count as 1948 spells.

In 1948 the total number of rain spells at the selected stations was 107 and of these 28 ranked as or included wet spells.

The longest rain spell, 54 days with 19·92 inches of rain, was recorded at Llanddeusant, Carmarthenshire, from December 23 (1947) to February 14. This was the longest rain spell at any of the selected stations since 1944 when Londonderry (Creggan Reservoir) had a rain spell lasting 67 days. Rain spells of shorter duration but greater intensity than the Llanddeusant spell occurred at several stations, the most intense being at Treherbert, Glamorgan, where, in the 24 days from December 29 (1947) to January 21, there was 18·87 inches of rain, or a mean daily fall of ·79 inch.

Of the 107 rain spells listed in Table 4C, 58 fell between December 18 (1947) and February 17. Several stations had two rain spells in this period separated by only one or two dry days. There were 11 rain spells between August 28 and October 4, 16 between October 8 and November 21 and 14 between November 30 and December 17. Between April 15 and June 13 only one station reported a rain spell, viz. Kinbrace, Sutherland, where a spell lasting 20 days was recorded from May 21 to June 9.

The rain spells of 1948 were mostly confined to the western half of Great Britain. They were of appreciably greater frequency in the north than in the south, 66 spells being recorded at 27 Scottish stations compared with only 15 at the 41 stations in England. Three stations, Gruline (Mull), Tiree and Fort William, had 6 rain spells in the year and one station, Londonderry, had as many as 7.

Of the 28 wet spells, no less than 24 fell within a period of barely two months, December 19 (1947) to February 16 ; 13 of these wet spells ended on or before January 21 and the remaining 11 began on or after

January 25. Portree in Skye had a 22 days' wet spell from August 28 to September 18 and one of 18 days from October 8 to 25. This was the only station with four wet spells in 1948. The longest wet spell, 31 days with 8·65 inches of rain, was at Islay from December 22 (1947) to January 21.

A comparison of rain spells and wet spells recorded in 1948 with those for the years 1943–47 is given in Tables 4A and 4B.

Table 4A Rain Spells* at 82 stations, 1943–1948

Year	No. of rain spells	DURATION OF SPELLS				STATIONS WITH			
		Mean		Longest					
		Days	Mean rain per day	Days	Mean rain per day	None	1 or 2	3 or 4	5 or more
			in.		in.				
1943 ..	98	22	·27	42	·28	42	26	9	5
1944 ..	95	21	·26	67	·19	35	35	10	2
1945 ..	86	19	·26	40	·24	35	37	9	1
1946 ..	134	21	·28	42	·18	22	42	15	3
1947 ..	82	20	·26	34	·20	26	48	8	0
1948 ..	107	21	·30	54	·37	37	29	10	6

* At least ·01 inch each day for 15 days or more

Table 4B Wet Spells† at 82 stations, 1943–1948

Year	No. of wet spells	DURATION OF SPELLS				STATIONS WITH			
		Mean		Longest					
		Days	Mean rain per day	Days	Mean rain per day	None	1 or 2	3 or 4	5 or more
			in.		in.				
1943 ..	15	21	·37	26	·63	71	10	1	0
1944	21	18	·63	25	·49	66	16	0	0
1945 .	22	16	·35	20	·41	65	17	0	0
1946	42	19	·38	37	·40	57	22	3	0
1947 ..	21	17	·35	25	·25	64	18	0	0
1948 ..	28	19	·38	31	·28	63	17	2	0

† At least ·04 inch each day for 15 days or more

Table 4C Rain Spells and Wet Spells in 1948

County and River Division	Station	Rain Spells*				Wet Spells†				Max. in a Day during Rain Spells	
		Began	Ended	Lasted	Total Rain	Began	Ended	Lasted	Total Rain	Date	Rain
ENGLAND				days	in.			days	in.		in.
S. Devon.....5	Teignmouth (Den Gardens)	24, xii '47	Jan. 19	27	4·70	..	..	..	..	Jan. 6	1·09
N. Devon 2	Barnstaple (N. Devon Athenaeum)	23, xii '47	Jan. 19	28	5·65	29, xii '47	Jan. 19	22	4·39	26, xii '47	·69
Cornwall 1	Bude (School House)	21, xii '47	Jan. 19	30	6·57	..	..	..	..	26, xii '47	·93
,, ...2	St. Austell (Trevarna).....	22, xii '47	Jan. 21	31	8·57	23, xii '47	Jan. 21	30	8·55	Jan. 6	·87
,, ...4	Tresco Abbey	23, xii '47	Feb. 6	46	8·06	.	..	..	..	Jan. 10	·83
Somerset 3	Trull (Wayside)	Jan. 6	Jan. 21	16	3·26	.	..	..	..	Jan. 10	·54
Cheshire 2	Northwich (Hunts Lock)	23, xii '47	Jan. 17	26	6·22	28, xii '47	Jan. 14	18	5·33	Jan. 12	·85
,, ...3	Birkenhead (Bidston Obsy.)	23, xii '47	Jan. 21	30	6·48	..	..	..	..	Jan. 10	·68
North Lancs. .5	Blackpool (Stanley Park)	Jan. 6	Jan. 21	16	4·68	.	..	..	..	Jan. 10	1·07
Yorks., N.R. .2	Felixkirk (Mount St. John)	Jan. 24	Feb. 8	16	1·27		..	..	.	Jan. 26	·26
N'thumberl'd .3	Newcastle (Leazes Park)	Jan. 6	Jan. 22	17	5·31	..	..	..	..	Jan. 7	1·25
Cumberland .1	Geltsdale	Jan. 29	Feb. 15	18	2·67	..	..	..	..	Feb. 6	·52
,, .2	Keswick (High Hill)	21, xii '47	Jan. 21	32	10·09	21, xii '47	Jan. 4	15	5·85	Jan. 4	1·55
		Jan. 24	Feb. 14	22	7·10	Jan. 25	Feb. 14	21	7·08	Feb. 1	1·87
		Oct. 10	Oct. 26	17	4·33	..	..	..	..	Oct. 13	1·35
WALES											
Glamorgan ..6	Treherbert (Tyn-y-waun)	29, xii '47	Jan. 21	24	18·87	..	..	..		Jan. 12	3·30
		Jan. 23	Feb. 14	23	9·87	..	..	..	..	Feb. 5	1·22
Carmarthen ..2	Llanddeusant (Pontcrynfe)	23, xii '47	Feb. 14	54	19·92	..	..	..	..	Jan. 10	1·79
		June 13	June 28	16	3·11	..	..	..	..	June 16	·87
		Aug. 31	Sept. 14	15	6·17	..	..	..	..	Sept. 12	1·49
Cardigan 2	Aberystwyth (P.B.S.)	29, xii '47	Jan. 21	24	6·79	..	..	..	..	Jan. 10	·91
		Oct. 11	Oct. 25	15	4·30	..	..	..	..	Oct. 17	·76
Radnor 1	Birmingham W.W. (Tyrmynydd) .	21, xii '47	Jan. 21	32	17·48	Jan. 6	Jan. 21	16	10·39	Jan. 12	2·67
		Dec. 1	Dec. 17	17	7·57	..	..	..	..	{Dec. 2 / Dec. 13}	1·28
Merioneth....1	Bala (Tegid Street)	23, xii '47	Jan. 21	30	15·73	23, xii '47	Jan. 7	16	9·08	Jan. 12	2·32
Anglesey	Llanerchymedd (Llwydiarth Esgob)	Jan. 25	Feb. 17	24	2·97	..	..	..	..	Jan. 26	·45
Isle of Man ...	Douglas (Borough Cemetery) ...	23, xii '47	Jan. 7	16	5·08	..	..	..	..	Jan. 4	1·49

* At least 15 days, each credited with ·01 inch or more

† At least 15 days, each credited with ·04 inch or more

Table 4C Rain Spells and Wet Spells in 1948 (*continued*)

County and River Division	Station	Rain Spells*				Wet Spells†				Max. in a Day during Rain Spells	
		Began	Ended	Lasted	Total Rain	Began	Ended	Lasted	Total Rain	Date	Rain
SCOTLAND				days	in.			days	in.		in.
Kirkcudbright 5	Lochrutton (Dumfries W.W.) ...	Jan. 25	Feb. 16	23	5·63	..	..	..	..	Feb. 1	1·03
		Oct. 8	Oct. 25	18	3·36	..	.	..	..	Oct. 13	·78
Peebles 2	Stobo Castle	Jan. 24	Feb. 14	22	3·86	..	.	..	..	Feb. 1	·68
		Aug. 28	Sept. 16	20	3·45	..	..	..	..	Sept. 14	1·04
		Dec. 1	Dec. 16	16	3·82	..	..	..	..	Dec. 11	·98
Berwick 4	Marchmont House	Oct. 27	Nov. 12	17	1·88	..	..	..	..	Oct. 30	·37
Lanark 5	Strathaven (Glengavel Res.)	21, xii '47	Jan. 21	32	12·21	31, xii '47	Jan. 20	21	9·27	Jan. 4	·88
		Jan. 30	Feb. 14	16	5·85	Jan. 30	Feb. 14	16	5·85	Feb. 8	1·10
		Aug. 28	Sept. 18	22	7·38	..	..	..	..	Sept. 14	1·35
		Oct. 8	Oct. 24	17	5·95	..	..	..	..	Oct. 13	1·26
Renfrew 3	Greenock (Prospect Hill)	21, xii '47	Jan. 14	25	9·16	.	..	..	..	Dec. 10	1·45
		Jan. 26	Feb. 16	22	9·55	Jan. 30	Feb. 14	16	8·32	Feb. 8	1·37
		Dec. 1	Dec. 16	16	6·16	..	..	..	..	Dec. 11	1·05
Stirling 1	Falkirk (Arnotdale)	31, xii '47	Jan. 14	15	5·68	31, xii '47	Jan. 14	15	5·68	Jan. 10	1·15
		Jan. 30	Feb. 16	18	4·47	..	..	..	..	Feb. 8	·84
Argyll 11	Inveraray Castle Gardens	Jan. 26	Feb. 16	22	11·31	Jan. 30	Feb. 16	18	10·54	Feb. 8	1·75
		Sept. 5	Sept. 19	15	6·45	..	..	..	..	Sept. 14	1·68
„ 14	Islay (Eallabus)	22, xii '47	Jan. 21	31	8·65	22, xii '47	Jan. 21	31	8·65	Jan. 10	1·10
		Jan. 25	Feb. 14	21	5·92	Jan. 25	Feb. 14	21	5·92	Feb. 6	·63
		Oct. 8	Oct. 27	20	7·11	..	..	..	..	Oct. 8	1·58
„ 14	Mull (Gruline)	21, xii '47	Jan. 14	25	7·09	26, xii '47	Jan. 14	20	6·15	Jan. 10	·79
		Jan. 26	Feb. 16	22	9·13	Jan. 30	Feb. 16	18	8·12	Feb. 1	1·59
		Mar. 29	April 14	17	6·34	..	..	..	..	Mar. 31	1·89
		Aug. 28	Oct. 3	37	15·86	..	..	..	..	Sept. 26	1·79
		Oct. 8	Oct. 26	19	9·50	Oct. 8	Oct. 26	19	9·50	Oct. 8	1·63
		Dec. 1	Dec. 16	16	11·06	..	..	..	..	Dec. 5	2·97
„ 14	Tiree	19, xii '47	Jan. 2	15	3·73	..	..	..	..	Jan. 13	·69
		Jan. 26	Feb. 17	23	6·20	..	..	..	..	Feb. 9	·65
		Mar. 29	April 14	17	2·98	..	..	..	..	Mar. 31	·63
		Oct. 8	Oct. 27	20	5·67	..	..	..	..	Oct. 8	·98
		Nov. 7	Nov. 21	15	3·04	..	..	..	..	Nov. 14	·89
		Dec. 1	Dec. 16	16	5·05	..	..	..	..	Dec. 10	1·41

* At least 15 days, each credited with ·01 inch or more

† At least 15 days, each credited with ·04 inch or more

Table 4c Rain Spells and Wet Spells in 1948 (*continued*)

County and River Division	Station	Rain Spells*				Wet Spells†				Max. in a Day during Rain Spells	
		Began	Ended	Lasted	Total Rain	Began	Ended	Lasted	Total Rain	Date	Rain
SCOTLAND (*continued*)				days	in.			days	in.		in.
Perth 11	Aberfeldy (Dall Avon)	Dec. 1	Dec. 16	16	5·66	..	..	..	..	Dec. 11	1·31
Inverness.....2	Dalwhinnie.....	Jan. 30	Feb. 14	16	7·30	Jan. 30	Feb. 14	16	7·30	Feb. 1	1·62
		Dec. 1	Dec. 16	16	7·24	..	..	..	..	Dec. 2	1·33
„ 6	Loch Ness (Garthbeg)	21, xii '47	Jan. 5	16	3·84	..	..	..	..	Jan. 1	·81
		Jan. 30	Feb. 14	16	5·28	..	..	..	..	Feb. 3	·83
		Oct. 8	Oct. 25	18	3·12	..	..	..	..	Oct. 24	·52
		Dec. 1	Dec. 16	16	3·05	..	..	..	..	Dec. 11	·84
„ 17	Fort William (Teviot)..... ...	19, xii '47	Jan. 14	27	7·63	..	..	..	..	Jan. 1	1·14
		Jan. 30	Feb. 14	16	9·47	Jan. 30	Feb. 14	16	9·47	Feb. 8	1·40
		Mar. 29	April 14	17	6·14	..	..	..	..	April 7	1·28
		Aug. 28	Sept. 21	25	9·17	..	..	..	..	Sept. 18	1·47
		Oct. 8	Oct. 26	19	8·84	..	..	..	..	Oct. 13	1·26
		Dec. 1	Dec. 16	16	6·35	..	..	..	..	Dec. 5	1·57
„ 18	Skye (Portree)	21, xii '47	Jan. 14	25	7·77	21, xii '47	Jan. 5	16	5·92	Jan. 1	1·06
		Jan. 30	Feb. 16	18	8·52	Jan. 30	Feb. 15	17	8·51	Feb. 1	1·29
		Aug. 28	Sept. 21	25	7·75	Aug. 28	Sept. 18	22	7·71	Sept. 18	1·07
		Oct. 8	Oct. 26	19	6·61	Oct. 8	Oct. 25	18	6·59	Oct. 13	·78
		Dec. 2	Dec. 17	16	6·95	..	..	..	..	Dec. 6	1·17
Ross and Cromarty 3	Fortrose	Jan. 30	Feb. 15	17	2·33	..	..	..	..	Feb. 2	·34
„ 7	Ullapool	19, xii '47	Jan. 5	18	5·38	..	..	..	..	28, xii '47	·93
		Jan. 30	Feb. 14	16	3·71	..	..	..	..	Jan. 31	·52
		Oct. 8	Oct. 26	19	3·92	..	..	..	..	Oct. 13	·44
„ 10	Stornoway (Airfield)	Jan. 30	Feb. 17	19	4·95	..	..	..	..	Feb. 1	·70
		Aug. 28	Sept. 21	25	4·79	..	..	..	..	Sept. 18	·91
		Oct. 11	Oct. 26	16	2·64	..	..	..	..	Oct. 16	·32
		Nov. 30	Dec. 17	18	3·62	..	..	..	..	Dec. 10	·53
Sutherland ...3	Kinbrace (Auchintoul)	Jan. 26	Feb. 16	22	4·17	..	..	..	..	Jan. 30	·62
		May 21	June 9	20	3·52	..	..	..	..	May 31	·96
		June 14	July 4	21	2·70	..	..	..	..	June 27	·78
		Sept. 13	Oct. 4	22	3·05	..	..	..	..	Sept. 18	·73
		Oct. 8	Nov. 6	30	5·47	..	..	..	..	Oct. 13	·70

* At least 15 days, each credited with ·01 inch or more

† At least 15 days, each credited with ·04 inch or more

Table 4c Rain Spells and Wet Spells in 1948 (*continued*)

County and River Division	Station	Rain Spells. Began	Ended	Lasted	Total Rain	Wet Spells. Began	Ended	Lasted	Total Rain	Max. in a Day during Rain Spells. Date	Rain
SCOTLAND (*continued*)				days	in.			days	in.		in.
Sutherland ...5	Loch More (Achfary)	18, xii '47	Jan. 5	19	11·63	..	..	..	..	Jan. 1	2·59
		Jan. 30	Feb. 16	18	8·57	Jan. 30	Feb. 14	16	8·39	Jan. 30	1·68
Caithness 3	Thurso (Buckies)	Jan. 28	Feb. 11	15	2·06	..	..	..	..	Jan. 30	·47
NORTHERN IRELAND											
Fermanagh ..1	Newtownbutler (Crom Castle) ...	22, xii '47	Jan. 26	36	6·67	..	..	..	..	Jan. 10	·75
		Dec. 1	Dec. 16	16	5·12	..	..	..	..	Dec. 5	1·92
Antrim 5	Ballymena (Harryville)	Jan. 25	Feb. 17	24	4·10	..	..	..	..	Jan. 26	·69
		Dec. 1	Dec. 16	16	4·52	Dec. 1	Dec. 15	15	4·51	Dec. 5	1·90
Londonderry .5	Londonderry (Creggan Res.)	19, xii '47	Jan. 26	39	8·43	19, xii '47	Jan. 14	27	6·47	Jan. 10	·57
		Jan. 28	Feb. 14	18	3·47	Jan. 28	Feb. 14	18	3·47	Feb. 6	·48
		Mar. 28	April 15	19	3·39		..	..	..	Mar. 29	·76
		Aug. 28	Sept. 14	18	4·87		..	..	..	Sept. 14	1·08
		Sept. 16	Oct. 3	18	2·22	..	..	..	..	Sept. 22	·44
		Oct. 8	Oct. 27	20	4·25	..	..	..	..	Oct. 13	·70
		Dec. 1	Dec. 15	15	4·00	..	..	..	..	Dec. 5	2·10
Tyrone 3	Omagh (Edenfel)	21, xii '47	Jan. 14	25	5·29	23, xii '47	Jan. 14	23	5·25	Jan. 10	·58
		Jan. 28	Feb. 14	18	3·37	..	..	..	..	Feb. 6	·75
		June 14	June 28	15	2·01	..	..	..	..	June 26	·40

* At least 15 days, each credited with ·01 inch or more

† At least 15 days, each credited with ·04 inch or more

5 Duration of Rainfall in 1948

THE duration of rainfall is obtained by measurement of the records of autographic gauges. On these records the amount of rain is measured vertically and the duration of the rainfall is measured horizontally, using scales which are printed upon the charts. The pen of an autographic gauge writes a horizontal line on the record during the time that no rain is falling, and a sloping line whenever rain is passing into the receiver of the gauge. The inclination of the slope to the horizontal varies with the intensity of the rain.

The duration of rainfall discussed in this section is defined as the length of time during which rain is falling at a rate of not less than 0·1 mm. per hour, *i.e.* ·004 in. per hour. The tabulations at all the official stations are made according to this convention, which was first brought into use in *British Rainfall* 1920. The convention was adopted because, during very light rainfall, it was found to be almost impossible to define the exact point on the record where the change occurred from " no rain " to " rain ". By taking a definite limiting slope of the trace as the criterion the difficulty is avoided to a great extent and it is found possible to obtain measurements from different gauges and from different observers which are comparable amongst themselves. The limit 0·1 mm. (·004 in.) per hour is low enough to ensure that no fall of practical importance is excluded.

Table 5A gives the monthly and annual totals of duration of rainfall at 142 stations. Other records of duration are received but the published list gives a good representation over the country. At 91 of the stations records were obtained from a Dines Tilting Syphon raingauge.

For the purpose of Table 5A, the month commences at 9 a.m. G.M.T. on the first day of the month and ends at the same hour on the first day of the following month. Values which are wholly or partly estimated are shown in the Table in brackets.

The duration of rainfall in 1948 exceeded 1000 hours at a number of stations, mostly in the west of Great Britain. The longest duration was 1998 hours at Loch Sloy in Dunbartonshire. Other notably large totals of duration were, 1239 hours at Cray Reservoir in Brecon, 1217 hours at Eskdalemuir, 1216 hours at Taf Fechan, 1207 hours at Greenock and 1119 hours at Forest-in-Teesdale. The smallest total was 334 hours at Belstead Hall near Ipswich, but totals under 400 hours are shown at 15 other stations in Table 5A, most of them in the southern and eastern counties of England.

The largest monthly totals were 268 hours at Loch Sloy and 253 hours at Cray Reservoir, both for January. Duration during this month exceeded 150 hours at a number of stations in the west of Great Britain, but at Lossiemouth the total was only 49 hours. Apart from January the only months with totals exceeding 150 hours were February, June, and August to December at Loch Sloy and December at Cray Reservoir. In August the total duration exceeded 50 hours at nearly half the stations in Great Britain and was more than 100 hours at many places in the north. At Perth, Kirriemuir and Lossie-

mouth, August had the longest duration of any month in 1948.

The smallest duration for any month was 7 hours recorded at Swinton House, Berwickshire, in March. Peterborough and Slough had only 8 hours of rain in March and April respectively. March was the month of smallest duration over most of south and east Britain and the Midlands of England, as many as 52 stations recording a total duration under 20 hours in that month. May was the only month in which no station had as much as 100 hours of rain and it was the month of least duration for much of the west of Great Britain. At Barrow-in-Furness it rained for only 18 hours in May. The smallest monthly duration occurred in July over Gloucestershire and Herefordshire and in October over Kent.

Details of the duration of rainfall at Camden Square (London) are available back to 1881. The duration for the whole year 1948 and for the five months February, April, June, July and December approximated closely to the average. Of the remaining months, the values for January and August were nearly twice the average. August 1948, with 54 hours, gave the longest duration in August with but five exceptions, August 1941 having given 75 hours. September gave the smallest monthly value, 18 hours, but this was not exceptional there having been many Septembers with smaller totals of duration. The three months, September to November, gave a total duration of 73 hours, compared with the average of 117 hours.

Table 5B sets out the mean monthly and annual values of rate of rainfall at 15 stations chosen to show broadly the variation in rates throughout the country. The values are obtained by dividing the total fall for the month or the year by the duration as given in Table 5A.

The mean monthly rates ranged from ·114 in. per hour at Swansea in August to ·030 in. at Camden Square and Aldergrove in March. The high rate at Swansea refers to a total of 6·62 inches of rain falling in 57·8 hours on 19 days.

Mean Values of Rainfall Duration 1931–40, *over the British Isles.* Table 5C sets out the values of mean monthly and annual duration of rainfall for the period 1931–1940 at 50 stations in the British Isles. Table 5D gives the corresponding mean rates at 14 of these stations selected to give a representative distribution over Great Britain and Northern Ireland.

Table 5A Duration of Rainfall at 142 Stations during 1948 (Monthly and Annual values)

County and River Division	Station	Pattern of Gauge	H't. above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
London 2	Kensington Palace	Nat. Syphon	80	80	25	17	29	37	26	22	44	17	21	38	46	402
,, ...2	Hampstead Observatory	Hyetograph	451	94	44	18	22	46	44	27	51	20	31	41	53	491
,, ...2	St. Pancras (Camden Square) .	Dines T.S.	111	81	45	19	25	43	32	28	54	18	20	35	40	440
Surrey 2	Lingfield (Sewage Works)	Dines T.S.	155	88	50	16	22	38	42	22	46	22	24	30	74	474
,, ...4	Caterham (Alderstead Heath) .	Dines T.S.	577	104	54	18	29	38	50	35	65	30	28	40	79	570
,, ...4	Croydon (Airport)	Dines T.S.	201	98	57	17	30	41	48	33	65	25	36	36	86	572
,, ...4	Beddington Park	Dines T.S.	108	71	34	17	22	34	35	24	57	22	28	30	64	438
,, ...5	Dorking (Pixham Lane S.W.) .	Nat. Syphon	138	97	45	20	31	42	42	23	58	26	24	29	83	520
,, ...5	Epsom (Ruxley Lane S.W.)....	Hyetograph	76	73	36	17	27	38	40	22	46	15	20	24	54	412
,, ...5	Weybridge (Weyland S.W.) ...	Dines T.S.	50	60	28	13	21	37	33	21	45	17	22	24	48	369
,, ...5	Kingston (Sewage Works)	Nat. Syphon	23	72	33	14	24	33	30	19	43	15	22	25	47	377
,, ...5	Kew Observatory	Dines T.S.	20	77	38	16	23	41	29	23	42	21	22	32	42	406
,, ...6	Shottermill (Sewage Works) ...	Dines T.S.	383	126	56	21	38	40	44	21	59	34	32	35	83	589
Kent 1	Rye (R.A.F. Station)	Dines T.S.	15	93	44	17	24	33	25	28	29	19	14	34	43	403
,, ...1	Folkestone (The Leas)	Dines T.S.	128	81	36	21	29	33	24	35	29	25	16	48	55	432
,, ...2	Lympne (Airport)	Dines T.S.	342	77	39	17	24	29	25	29	36	23	15	44	45	403
,, ...2	Manston (Airfield)	Dines T.S.	155	69	35	25	30	32	32	28	36	25	18	49	49	428
,, ...4	West Malling (Airfield)	Dines T.S.	304	86	65	22	31	36	40	29	47	23	20	41	69	509
,, ...4	Strood Waterworks	Nat. Syphon	112	87	39	21	38	37	49	28	45	22	37	37	77	517
Sussex 1	Tangmere (Airfield)	Dines T.S.	53	105	35	24	41	38	34	32	63	54	42	52	89	609
,, ...5	Hankham	Nat. Syphon	68	79	37	18	14	26	20	23	41	15	16	36	36	361
,, ...5	Bodle Street (Bucksteep Manor)	Dines T.S.	235	82	35	11	17	27	26	25	50	20	21	36	48	398
Hampshire ..2	Bournemouth (Vale View)	Dines T.S.	139	89	19	13	25	34	34	21	44	27	32	29	76	443
,, ..4	Calshot	Dines T.S.	8	109	44	19	28	37	29	33	58	32	30	37	68	524
,, ..7	Petersfield (Stoner Hill)	Hyetograph	748	131	44	18	28	41	41	26	59	40	32	37	93	590
,, ..8	South Farnborough (R.A.E.) ..	Dines T.S.	226	87	34	11	24	47	32	19	51	29	19	26	75	454
Berkshire ...3	Maidenhead Sewage Works ...	Hyetograph	81	79	25	14	15	42	23	22	40	24	22	29	46	381
,, ...5	Abingdon (Airfield)	Dines T.S.	212	100	25	17	21	64	42	21	45	32	45	30	68	510
Middlesex ..1	Isleworth (Mogden Works) ...	Dines T.S.	33	69	29	12	20	40	23	20	43	16	20	26	32	350
,, ..1	Feltham (London Airport)	Dines T.S.	81	119	42	21	32	56	44	29	51	27	29	39	62	551
,, ..1	Hanwell	Hyetograph	36	76	37	18	22	36	15	18	37	31	14	25	28	357
,, ..1	Edgware M.C.C. Depot	Hyetograph	179	105	39	15	20	55	30	22	30	17	19	31	33	416
,, ..2	Palmers Green (Broomfield Pk.)	Nat. Syphon	138	91	34	12	19	39	30	21	34	19	15	30	36	380

Table 5A Duration of Rainfall at 142 Stations during 1948 (Monthly and Annual values)—(*continued*)

County and River Division	Station	Pattern of Gauge	H't. above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
Hertford ...2	North Mimms (Pumping Stn.) .	Dines T.S.	256	83	28	20	23	46	32	19	38	26	21	29	44	409
„ ...2	Harpenden (Rothamsted)	Nat. Syphon	420	109	27	20	20	54	36	19	47	29	31	35	47	474
„ ...3	Knebworth Park	Dines T.S.	379	91	30	18	18	42	32	30	50	24	34	55	45	469
Buckingham 3	Eton (Tangier Island)	N. & Z. Float	69	112	39	17	23	57	48	25	52	26	27	37	51	514
„ 3	Slough (Baylis House)	Dines T.S.	90	105	27	17	8	34	22	19	33	18	22	27	49	381
Northampton4	Peterborough (Sewage P.S.) ...	Nat. Syphon	9	59	12	8	13	58	26	20	43	27	37	28	34	365
„ 4	Wittering (Airfield)	Dines T.S.	239	83	21	14	24	66	41	32	53	36	39	33	33	475
Essex 2	Ilford (Valentines Park)	N. & Z. Float	45	63	30	16	28	32	27	23	39	15	22	31	39	365
Suffolk 2	Ipswich (Belstead Hall)	Nat. Syphon	125	73	26	17	20	22	34	16	28	14	18	31	35	334
„ 3	Felixstowe	Dines T.S.	11	76	37	22	32	25	32	27	35	26	19	38	33	402
„ 5	Mildenhall (Airfield).....	Dines T.S.	16	86	18	11	17	52	30	24	42	(20)	(25)	30	26	381
Norfolk.....1	West Raynham (Airfield).....	Dines T.S.	250	76	39	25	16	59	48	69	43	25	42	35	45	521
„ 2	Horsham St. Faith (Airfield)...	Dines T.S.	100	72	20	26	23	52	25	50	39	25	20	24	23	399
Wiltshire ...1	Lyneham (Airfield)	Dines T.S.	458	117	45	26	31	66	45	20	55	32	49	69	84	639
„ ...3	Salisbury (Sewage Works)	Nat. Syphon	147	105	19	9	17	46	46	15	49	41	37	65	86	535
„ ...3	Porton (W.D. Experimental Stn.)	Dines T.S.	364	118	26	14	43	52	36	21	55	39	27	33	87	551
„ ...3	Amesbury (Boscombe Down)..	Dines T.S.	418	151	28	18	25	60	41	25	53	37	33	42	92	605
„ ...3	Larkhill (School of Artillery) ..	Dines T.S.	431	120	29	19	24	54	31	40	34	30	23	20	65	489
S. Devon ...2	Plymouth (Mount Wise)	Dines T.S.	72	134	53	63	38	36	27	31	68	53	106	52	83	744
„ ...6	Exeter Airport	Dines T.S.	102	101	19	17	25	37	21	32	47	18	61	18	69	465
Cornwall....1	St. Eval (Airfield)	Dines T.S.	337	110	34	32	31	37	34	37	42	27	97	41	76	598
„ 2	Falmouth Observatory	Beckley	169	165	51	51	45	34	33	43	49	39	125	38	103	776
Somerset ...1	Litton (Sherborne Reservoir) ..	Dines T.S.	340	144	51	30	19	55	32	23	49	23	42	23	57	548
„ ...1	Bristol Airport.....	Dines T.S.	209	137	62	32	37	67	57	30	65	35	71	44	81	718
„ ...3	Bridgwater (Northmoor P.S.) .	Dines T.S.	23	106	21	20	28	61	25	26	43	22	45	25	61	483
Gloucester ..3	Cheltenham (Montpellier Gdns.)	N. & Z. Float	216	85	19	18	27	66	31	15	49	29	37	20	67	463
„ ..5	Horfield	Hyetograph	248	103	40	26	29	62	28	15	46	34	49	25	54	511
„ ..7	Cirencester (Baunton W.W.) ..	N. & Z. Float	397	97	31	23	27	73	37	15	46	24	43	31	64	511
„ ..7	Little Rissington (Airfield)	Dines T.S.	740	196	58	41	51	94	83	37	80	45	53	45	70	853
Hereford ...1	Ross-on-Wye	Hyetograph	224	85	15	22	27	64	24	11	46	25	34	24	68	445
Shropshire . .4	Shawbury (Airfield)	Dines T.S.	237	105	43	20	21	51	58	34	48	35	32	31	55	533
Stafford.....3	West Bromwich(Nicholls St.) ..	Hyetograph	537	108	29	24	29	61	49	32	44	31	34	32	68	541
„ 3	Cannock (Longford Road S.W.)	Hyetograph	400	93	25	21	33	49	69	30	55	37	31	29	50	522

Table 5A Duration of Rainfall at 142 Stations during 1948 (Monthly and Annual values)—(*continued*)

Country and River Division	Station	Pattern of Gauge	H't. above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
Worcester ..4	Defford (Airfield)	Dines T.S.	59	97	21	22	26	72	36	18	62	31	39	25	52	501
Warwick ...1	Kenilworth (Honiley)	Dines T.S.	427	107	27	23	22	60	34	34	51	31	38	32	50	509
,, ...4	Birmingham (Handsworth Park)	N. & Z. Float	424	76	19	20	23	44	34	22	32	26	29	20	44	389
Leicester ...4	Loughborough (Nanpantan Res.)	Hyetograph	269	96	28	21	37	63	30	25	43	34	29	26	56	488
Lincoln 3	Cranwell (Airfield)	Dines T.S.	206	94	21	17	39	56	41	29	40	42	31	30	51	491
,, ...3	Waddington (Airfield)	Dines T.S.	234	78	15	13	25	53	49	35	46	36	30	21	41	442
,, ...4	Binbrook (Airfield)	Dines T.S.	352	92	26	15	34	52	79	45	49	42	32	24	61	551
Nottingham .5	Nottingham (Sneinton P.S.) ...	Fernley	83	82	41	13	24	45	40	22	50	33	37	31	45	463
,, .5	Watnall (Airfield)	Dines T.S.	368	148	64	23	44	52	50	23	56	49	33	40	67	649
,, .5	Sutton-in-Ashfield (Sew. Works)	Hyetograph	457	137	67	27	44	60	66	34	66	40	37	48	80	706
Derbyshire ..1	Hayfield (Kinder Filters)	N. & Z. Survey	801	130	49	26	36	35	75	49	66	41	31	47	51	636
,, ..6	Burbage (Lower Burbage)	Hyetograph	924	130	67	28	45	54	52	20	43	29	28	24	56	576
Cheshire 1	Langley (Trentabank Reservoir)	Dines T.S.	854	127	42	31	35	43	77	65	83	48	47	54	50	702
,, ...1	Appleton Reservoir	Dines T.S.	120	106	28	25	26	31	72	32	47	30	29	29	43	498
,, ...1	Manchester (Ringway)	Dines T.S.	230	120	50	25	26	43	65	49	59	48	44	42	47	618
,, ...1	Sale (Carrington Lane)	Dines T.S.	72	120	47	27	32	49	89	45	72	48	40	44	50	663
,, ...2	Congleton (Sewage Works) ...	Dines T.S.	248	95	32	22	19	40	60	41	56	38	33	33	45	514
S. Lancs.....2	Garston (Speke Airport)	Dines T.S.	82	141	49	42	48	51	73	52	53	45	36	45	61	696
,, ...3	Bolton (Queens Park).....	Nat. Syphon	342	133	(51)	20	35	35	77	48	57	52	50	40	51	649
C. Lancs. ...1	Accrington (Oak Hill Park) ...	Nat. Syphon	646	142	55	41	31	39	96	30	56	59	44	32	59	684
,, ...1	Blackpool (Squires Gate).....	Dines T.S.	34	144	44	42	32	28	89	34	60	64	47	50	55	689
,, ...3	Southport (Hesketh Park)	Fernley	38	111	35	26	21	25	65	32	53	39	31	39	45	522
N. Lancs. ...1	Barrow-in-Furness (Sew. Works)	N. & Z. Float	24	123	41	37	26	18	73	27	49	51	70	50	48	613
Yorks., W.R.6	Finningley (Airfield)	Dines T.S.	31	102	22	12	21	42	46	24	51	28	23	19	54	444
,, 9	Bradford (Thornton Gram. Sch.)	Nat. Syphon	580	177	61	31	45	22	67	28	63	35	28	25	52	634
,, 9	Earby (Sewage Works).....	Hyetograph	426	147	67	49	33	27	76	32	58	49	44	40	46	668
,, 10	Tadcaster (Church Fenton) ...	Dines T.S.	29	107	29	19	35	29	49	18	55	25	27	20	42	455
Yorks., E.R. 3	Driffield (Airfield)	Dines T.S.	71	124	52	18	34	38	86	22	47	27	37	27	54	566
Yorks., N.R. 2	Thirsk (Topcliffe)	Dines T.S.	81	128	32	21	36	28	73	10	42	23	16	15	41	465
,, 2	Felixkirk (Mount St. John) ...	Halliwell	542	121	29	20	29	25	86	20	48	25	19	18	38	478
,, 2	Leeming (R.A.F. Station)	Dines T.S.	105	129	24	22	35	35	76	18	66	31	16	17	52	521
,, 6	Middlesbrough (South Bank) ..	Nat. Syphon	43	102	19	17	18	20	67	13	43	19	17	20	29	384
Durham 1	Darlington Waterworks	Dines T.S.	161	126	43	26	28	36	93	25	68	36	26	20	50	577
,, ...1	Forest-in-Teesdale.....	Dines T.S.	1250	181	132	37	79	70	151	48	105	84	81	57	94	1119

Table 5A Duration of Rainfall at 142 Stations during 1948 (Monthly and Annual values)—(*continued*)

County and River Division	Station	Pattern of Gauge	H't. above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
North'land .5	Acklington (Airfield)	Dines T.S.	138	147	29	14	37	35	71	10	90	35	31	29	47	575
Cumberland 3	St. Bees Head Lighthouse	Dines T.S.	400	139	38	47	34	36	92	62	73	58	64	56	61	760
Glamorgan .1	Felindre (Upper Lliw Reservoir)	Hyetograph	599	157	51	52	44	48	84	58	84	87	72	62	100	899
,, .3	Swansea (Victoria Park)	Hyetograph	28	126	29	35	36	41	55	36	58	59	54	47	79	655
,, .7	Cardiff (Penylan).....	Nat. Syphon	202	124	45	28	31	55	43	29	53	46	74	52	64	644
Pembroke ..4	Pembroke Dock	Dines T.S.	27	113	33	28	39	28	55	43	72	77	78	63	77	706
Cardigan....2	Aberporth	Dines T.S.	378	114	40	38	30	38	54	53	65	60	51	45	96	684
Brecon 4	Taf Fechan (Pontsticill)	Dines T.S.	1031	222	97	67	68	67	106	62	98	113	102	79	135	1216
,, ...7	Swansea W.W. (Cray Reservoir)	Dines T.S.	1044	253	59	80	99	72	131	45	98	117	77	57	151	1239
Montgomery 5	Lake Vyrnwy (Expl. Station) ..	Dines T.S.	995	204	76	54	43	46	76	38	63	60	43	53	78	834
Flint 1	Hawarden (Airfield).....	Dines T.S.	17	123	43	35	43	32	53	39	41	32	33	32	65	571
Denbigh 1	Wrexham (Grove Park School)	Hyetograph	277	123	31	21	31	30	53	27	39	25	25	29	65	499
Carnarvon ..5	Snowdon (Cwm Dyli)	Beckley	310	196	78	83	58	50	104	67	88	99	100	92	100	1115
Anglesey	Holyhead (Salt Island)	Dines T.S.	28	152	39	53	35	29	78	45	64	68	58	71	71	763
Kirkcudb'ght3	Dalry (Glenlee).....	Hyetograph	181	188	71	80	47	38	62	52	109	84	135	65	119	1050
Dumfries ...5	Eskdalemuir Observatory	Dines T.S.	794	182	94	93	72	45	106	62	133	112	119	94	105	1217
Berwick.....3	Swinton House	Hyetograph	200	84	20	7	26	23	43	28	91	28	32	21	23	426
Midlothian .5	Boghall (College of Agriculture)	Hyetograph	639	100	32	21	24	28	48	25	77	31	25	24	41	476
Ayrshire 3	Prestwick Airport	Dines T.S.	30	150	53	71	43	30	93	54	94	76	95	49	80	888
,, ...3	Dalry (Camphill Reservoir)....	Dines T.S.	634	139	83	78	67	42	99	81	107	108	132	77	110	1123
Renfrew 2	Renfrew	Dines T.S.	29	..	..	82	61	35	81	49	89	78	93	55	89	..
,, ...3	Greenock (Prospect Hill)	Hyetograph	199	144	96	91	66	37	80	69	120	135	149	(90)	(130)	(1207)
Dunbarton .3	Loch Sloy (Power Station)	Dines T.S.	99	268	158	139	115	70	156	123	178	219	214	156	202	1998
Argyll 2	Ardnamurchan	Dines T.S.	79	84	71	65	39	30	62	69	56	86	107	65	106	840
,, ...4	Tiree	Dines T.S.	29	140	87	73	63	53	104	69	86	123	146	89	115	1148
Fife 1	Dunfermline.....	Dines T.S.	237	98	47	28	34	42	57	38	89	43	48	37	50	611
,, ...1	Leuchars (Airfield)	Dines T.S.	33	105	69	13	19	62	66	53	102	30	59	23	49	650
Perth 8	Perth (Craigie Haugh)	Hyetograph	18	101	54	22	21	47	62	63	120	39	58	26	76	689
Angus 1	Kirriemuir (Lintrathen)	Nat. Syphon	700	(108)	(66)	38	25	87	64	50	118	52	90	47	92	837
Aberdeen ...2	Dyce (Airfield).....	Dines T.S.	238	74	24	11	27	47	62	46	92	42	72	16	46	559
,, ..4	Rattray Head.....	Dines T.S.	85	64	22	15	24	45	54	48	50	42	48	27	41	480
Moray 4	Lossiemouth	Dines T.S.	22	49	43	15	19	48	69	60	102	53	66	25	29	578

Table 5A Duration of Rainfall at 142 Stations during 1948 (Monthly and Annual values)—(*concluded*)

County and River Division	Station	Pattern of Gauge	H't. above Sea	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
			ft.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.	hrs.
Inverness ..18	Glenbrittle	Dines T.S.	30	96	72	82	77	48	82	78	105	101	124	81	133	1079
,, ..19	Benbecula	Dines T.S.	16	98	57	51	40	43	51	57	81	128	115	76	119	916
Ross and Cromarty 10	Stornoway (Airfield)	Dines T.S.	15	84	71	58	59	22	53	39	79	112	92	68	100	837
Caithness ...2	Wick (Airfield)	Dines T.S.	121	109	50	25	44	40	55	58	67	78	114	64	83	787
Orkney	Hatston (Airport)	Dines T.S.	37	89	46	53	43	38	38	47	58	88	122	67	99	788
Shetland	Lerwick Observatory	Dines T.S.	269	122	61	52	56	29	40	66	48	99	105	74	101	853
Fermanagh .1	Castle Archdale	Dines T.S.	225	110	65	74	32	36	82	55	66	65	59	42	125	811
Armagh 5	Armagh Observatory	Beckley	209	103	41	42	25	19	66	29	29	35	28	23	60	500
Antrim 5	Aldergrove (Airfield)	Dines T.S.	220	133	45	49	30	31	62	48	54	86	55	38	94	725
Londonderry 5	Ballykelly (Airfield)	Dines T.S.	10	113	54	59	49	28	57	70	72	80	76	47	97	802

Table 5B Mean Rate of Rainfall at 15 Stations during 1948 (Monthly and Annual values)

County and River Division	Station	Rain-fall 1948	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		in.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.	ins. per hr.
London 2	St. Pancras (Camden Square) ...	23·48	·045	·031	·030	·066	·064	·066	·038	·056	·075	·098	·050	·054	·053
Suffolk 5	Mildenhall (Airfield).....	22·19	·039	·035	·045	·060	·066	·076	·051	·084	·073	·072	·046	·061	·058
Wiltshire 3	Porton (W.D. Experimental Stn.)	34·97	·054	·052	·097	·035	·076	·070	·076	·063	·073	·080	·070	·064	·064
Cornwall.....1	St. Eval (Airfield)	38·62	·065	·041	·069	·071	·066	·064	·055	·062	·071	·063	·058	·084	·064
Hereford 1	Ross-on-Wye	30·82	·051	·059	·062	·095	·058	·070	·062	·076	·102	·091	·075	·069	·069
Leicester 4	Loughborough (Nanpantan Res.)	31·42	·056	·055	·043	·045	·046	·061	·064	·111	·082	·087	·047	·076	·064
N.R. Yorkshire 2	Felixkirk (Mount St. John)	26·64	·047	·038	·051	·049	·041	·065	·082	·066	·073	·061	·037	·063	·056
Glamorgan 3	Swansea (Victoria Park)	50·36	·069	·069	·053	·062	·069	·074	·075	·114	·076	·093	·068	·086	·077
Denbigh 1	Wrexham (Grove Park C. School)	29·99	·055	·055	·046	·052	·037	·076	·065	·105	·047	·058	·058	·058	·060
Dumfries 5	Eskdalemuir	73·73	·056	·062	·040	·061	·040	·066	·065	·075	·062	·050	·056	·075	·061
Argyll 14	Tiree	55·28	·047	·050	·046	·034	·033	·036	·055	·046	·054	·046	·053	·064	·048
Aberdeen 2	Dyce (Airfield).....	32·75	·055	·034	·067	·053	·071	·078	·059	·051	·043	·050	·066	·078	·059
Ross and Cromarty 10	Stornoway (Airfield)	48·92	·065	·064	·053	·066	·055	·041	·068	·048	·064	·052	·063	·059	·058
Shetland	Lerwick Observatory	44·72	·039	·059	·051	·053	·063	·047	·049	·045	·057	·055	·060	·057	·052
Antrim 5	Aldergrove (Airfield)	35·39	·042	·032	·030	·061	·055	·055	·053	·053	·050	·057	·067	·048	·049

Table 5c Mean Monthly and Annual Duration of Rainfall in hours, 1931–1940

County and River Division	Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
London 2	Kensington Palace	62·8	42·5	37·1	50·6	36·5	25·0	26·9	22·7	32·9	45·0	60·3	50·2	492·5
,, ...2	St. Pancras (Camden Square) ...	55·8	39·4	36·3	48·4	34·7	23·7	26·9	22·1	33·2	47·1	59·0	52·0	478·6
Surrey 4	Croydon (Airport)	83·4	58·4	43·8	57·4	40·1	27·4	34·3	26·5	36·1	57·0	77·0	75·5	616·9
,, ...5	Kingston (Sewage Works)	50·4	33·1	28·5	44·1	33·5	22·1	26·7	21·0	27·6	39·2	52·2	42·8	421·2
,, ...5	Kew Observatory	54·9	38·7	33·8	43·5	31·2	24·0	25·9	21·5	28·7	41·1	54·6	44·6	442·5
Kent 2	Lympne (Airfield)	85·7	52·0	48·0	49·9	31·6	19·5	28·9	23·4	37·9	56·3	69·2	65·5	567·9
,, ...4	Strood Waterworks	68·8	43·3	41·1	51·3	32·6	26·1	30·4	23·0	31·6	52·5	64·5	55·0	520·2
Hampshire ..4	Calshot	71·6	50·3	42·5	41·6	32·5	25·1	34·1	22·2	33·6	52·1	72·6	65·2	543·4
,, ..7	Petersfield (Stoner Hill)	90·4	56·7	51·1	61·4	35·9	29·8	42·2	26·9	44·5	60·7	84·0	83·1	666·7
,, ..8	South Farnborough (R.A.E.)	71·1	52·1	42·6	52·1	36·4	26·2	35·6	21·6	35·7	49·7	66·5	61·9	551·5
Middlesex ..1	Edgware M.C.C. Depot	49·8	34·9	31·5	47·9	32·2	22·7	25·6	19·1	28·1	40·0	51·7	39·8	423·3
,, ..2	Palmers Green (Broomfield Park)	53·2	37·1	32·5	46·7	31·9	22·1	24·8	19·4	26·9	41·6	53·1	45·7	435·0
Hertford ...2	Barnet (Sewage Works)	53·7	36·3	32·6	43·8	31·6	22·2	25·3	21·0	29·3	42·6	55·9	43·3	437·6
,, ...2	Harpenden (Rothamsted)	58·2	42·9	38·0	47·7	34·1	23·3	27·0	21·7	32·5	42·2	61·8	47·4	476·8
Oxford 3	Upper Heyford (Airfield).....	65·6	54·1	44·0	61·4	41·8	33·2	38·2	25·8	42·0	51·6	72·2	60·8	590·7
Suffolk 2	Copdock	55·8	39·8	34·9	42·5	33·5	19·1	24·1	18·3	26·7	45·7	54·8	45·2	440·4
Wiltshire ...3	Salisbury (Sewage Works)	66·3	45·9	40·9	44·1	32·3	26·1	34·4	20·2	34·2	50·7	61·3	59·7	516·1
,, ...3	Amesbury (Boscombe Down) ...	68·0	49·7	43·5	50·3	34·7	26·9	36·0	19·5	35·7	52·4	66·7	61·9	545·3
Dorset 3	Poole	69·1	46·8	43·0	44·0	31·4	26·8	36·7	24·3	40·9	53·3	63·9	65·3	545·5
Cornwall....2	Falmouth Observatory	103·6	74·6	43·2	59·1	42·0	35·7	52·8	32·7	48·4	72·1	91·4	92·3	767·9
Hereford ...1	Ross-on-Wye	56·3	37·1	31·8	41·6	34·9	23·3	32·6	19·9	27·4	45·9	51·8	47·9	450·5
Stafford.....3	West Bromwich	45·3	39·3	31·9	43·9	37·2	24·6	34·7	22·9	27·8	42·2	55·9	43·9	449·6
,, ...5	Mayfield	82·7	65·9	46·1	59·1	41·1	39·4	53·4	32·6	47·5	72·0	84·3	68·4	692·5
Lincoln 3	Cranwell (Airfield)	70·5	54·8	45·6	51·8	47·0	31·7	40·3	25·1	35·9	43·3	69·0	64·9	579·9
Nottingham .2	Sutton Bonnington (Agric. Coll.)	46·1	34·5	29·7	41·8	33·6	23·8	32·4	20·2	30·6	36·8	52·0	37·9	419·4
,, .5	Nottingham (Sneinton P.S.)	48·3	41·8	32·1	45·3	35·4	25·6	32·6	20·4	27·3	37·8	52·9	36·9	436·4
Derby 6	Burbage (Lower Burbage)	81·5	67·7	49·8	61·7	41·6	37·3	43·7	30·1	42·8	70·7	88·6	68·9	684·4
Cheshire 3	Birkenhead (Bidston Observatory)	66·1	53·3	40·9	52·5	51·3	39·5	43·3	34·9	43·4	60·9	67·3	57·9	611·3
S. Lancs. ...3	Bolton (Queen's Park)	85·1	70·1	51·1	61·3	53·2	45·6	57·7	43·7	50·5	86·6	82·8	73·2	760·9
C. Lancs. ...2	Leyland (Worden Hall)	68·6	58·7	42·9	53·3	48·4	42·9	52·1	40·7	49·7	74·6	75·8	59·0	666·7
,, ...3	Southport (Hesketh Park)	60·1	47·1	37·3	47·5	43·5	39·3	41·0	32·6	39·5	62·2	65·7	50·0	565·8
W.R. Yorks. 7	Sheffield W.W. (Rivelin)	74·3	62·0	46·1	55·6	41·0	34·3	40·1	28·6	41·1	69·4	84·6	59·0	636·1
,, 9	Haworth (Lower Laithe Reservoir)	95·7	83·6	59·3	64·1	49·5	51·4	59·3	40·7	56·5	90·2	100·7	80·6	831·6
,, 9	Earby (Sewage Works).....	75·1	63·3	46·1	52·1	42·7	49·3	54·4	40·1	45·0	87·9	72·3	76·4	704·7
N.R. Yorks. 2	Felixkirk (Mount St. John)	63·4	54·8	51·2	50·7	48·4	36·7	42·7	32·2	41·8	52·6	65·7	56·8	597·0
Glamorgan .3	Swansea (Victoria Park)	70·8	53·6	35·9	46·3	39·2	35·9	55·3	30·3	46·1	66·8	76·2	62·9	619·3

Table 5C Mean Monthly and Annual Duration of Rainfall in hours, 1931–1940—(*concluded*)

County and River Division	Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Glamorgan .7	Cardiff (Penylan)	85·3	67·9	52·1	62·3	50·6	31·6	52·3	30·9	46·7	68·6	79·3	66·5	694·1
Brecon 7	Cray Reservoir	132·5	95·4	80·1	83·9	62·5	65·0	83·5	46·1	61·7	108·0	118·1	114·1	1050·9
Flint 1	Sealand (Airfield)	67·5	52·3	44·5	53·7	48·3	38·0	41·6	31·0	40·8	60·2	70·4	56·6	604·9
Anglesey	Holyhead (Salt Island)	81·9	57·5	49·7	46·8	45·4	47·4	48·0	34·1	45·8	69·4	69·6	78·3	673·9
Dumfries ...5	Eskdalemuir Observatory	146·2	99·3	98·1	77·7	56·8	75·7	95·3	58·4	73·7	117·3	109·9	124·9	1133·3
Midlothian .5	Boghall (College of Agriculture)	69·1	49·4	56·4	53·8	40·2	44·7	61·0	35·7	44·1	73·1	64·6	60·3	652·4
Ayr 3	Kilmarnock (Kay Park)	81·1	49·6	47·7	37·1	34·7	43·9	53·8	37·6	45·5	73·1	63·0	63·8	630·9
Renfrew 2	Renfrew (Abbotsinch Airfield)	102·9	68·1	61·4	53·6	49·1	53·0	65·4	40·5	54·7	91·8	85·3	83·9	809·7
„ 3	Greenock (Prospect Hill)	108·8	85·3	78·3	58·7	49·3	60·7	74·5	52·2	72·6	106·6	98·3	104·4	949·7
Argyll 4	Glenleven (Blackwater Dam)	174·3	127·5	114·1	95·3	74·4	87·5	119·2	90·4	111·0	166·8	146·8	153·4	1460·7
Fife 3	Leuchars (Airfield)	61·3	39·5	53·2	44·3	43·6	41·9	63·3	32·6	36·8	64·3	58·5	52·3	591·6
Aberdeen ...1	Aberdeen Observatory	72·2	56·8	64·4	57·2	44·8	37·3	67·9	34·0	45·7	70·5	68·0	65·8	684·6
Shetland	Lerwick	100·5	75·7	68·5	58·8	44·6	43·6	57·3	49·0	55·8	80·5	79·1	85·4	798·8
Antrim 5	Aldergrove (Airfield)	70·6	55·2	60·6	52·0	42·5	46·2	54·9	40·3	46·7	65·0	61·8	72·6	668·4

Table 5D Mean Monthly and Annual Rates of Rainfall in inches per hour, 1931–1940

County and River Division	Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
London 2	St. Pancras (Camden Square)	·043	·037	·043	·043	·048	·066	·063	·081	·071	·058	·049	·039	·051
Wiltshire 3	Amesbury (Boscombe Down)	·045	·044	·046	·041	·046	·066	·080	·076	·068	·060	·055	·046	·053
Cornwall.....2	Falmouth Observatory	·049	·050	·050	·049	·051	·062	·059	·062	·060	·062	·060	·054	·055
Hereford 1	Ross-on-Wye	·054	·048	·053	·055	·059	·082	·084	·083	·077	·062	·062	·053	·062
Lincoln 3	Cranwell (Airfield)	·032	·030	·031	·036	·043	·050	·086	·065	·053	·052	·038	·028	·042
S. Lancashire ..3	Bolton (Queens Park)	·053	·050	·047	·045	·049	·071	·068	·074	·073	·066	·061	·054	·059
N.R. Yorkshire 2	Felixkirk (Mount St. John)	·045	·046	·036	·038	·046	·061	·085	·068	·059	·057	·049	·048	·052
Brecon 7	Swansea W.W. (Cray Reservoir)	·068	·056	·054	·055	·061	·066	·071	·066	·064	·068	·074	·061	·064
Anglesey	Holyhead (Salt Island)	·050	·041	·037	·034	·043	·054	·051	·055	·062	·062	·059	·053	·051
Dumfries 5	Eskdalemuir Observatory	·053	·046	·040	·044	·050	·059	·062	·059	·063	·059	·056	·049	·053
Argyll 4	Glenleven (Blackwater Dam)	·073	·064	·057	·054	·052	·057	·061	·061	·068	·070	·067	·072	·064
Aberdeen 1	Aberdeen Observatory	·038	·033	·031	·039	·048	·047	·059	·060	·054	·047	·047	·041	·044
Shetland	Lerwick	·044	·044	·046	·045	·044	·048	·053	·057	·056	·055	·052	·048	·049
Antrim 5	Aldergrove (Airfield)	·043	·039	·038	·040	·043	·042	·073	·062	·061	·053	·049	·047	·050

6 Heavy Falls in Short Periods in 1948

HEAVY falls of rain in short periods are of considerable economic importance, for they are frequently of such intensity as to cause extensive flooding, often accompanied by much surface erosion and structural damage to property. Considerable damage may occur as a result of the accumulation of flood water below the area of heaviest rainfall. The amount of the damage depends on a number of factors, such as the shape of the catchment area, the nature of the ground, whether the water finally flows into the river or sea at high or low tide and the relative positions of the towns. In towns the floods may be aggravated by failure of the drainage system to cope with the demands made upon it. The information given in this section supplements that in Section 7, Heavy Falls on Rainfall Days, which deals with falls of longer duration causing often more widespread flooding.

The table below, 6A, indicates the classification used since January 1st, 1936, and described in full in an article in Part IV of *British Rainfall*, 1935. The diagram showing the full classification was printed in the volumes for 1935–1938.

A list of falls of "very rare" intensity lasting for one hour or less which were

Table 6A Lower Limits of Intense Rainfalls

Time	Noteworthy			Remarkable			Very Rare		
	Amount		Rate	Amount		Rate	Amount		Rate
mins.	in.	mm.	in./hr.	in.	mm.	in./hr.	in.	mm.	in./hr.
5 or less	·43	10·9	5·16	·68	17·3	8·16	1·06	26·8	12·72
10 ,, ,,	·54	13·8	3·24	·85	21·6	5·10	1·31	33·2	7·86
20 ,, ,,	·68	17·3	2·04	1·06	26·8	3·18	1·61	40·9	4·83
30 ,, ,,	·77	19·7	1·54	1·19	30·3	2·38	1·82	46·2	3·64
40 ,, ,,	·85	21·6	1·27	1·30	33·2	1·95	1·98	50·3	2·97
50 ,, ,,	·91	23·2	1·09	1·40	35·6	1·68	2·12	53·8	2·55
60 ,, ,,	·97	24·5	·97	1·48	37·6	1·48	2·24	56·8	2·24
70 ,, ,,	1·01	25·7	·87	1·55	39·4	1·33	2·34	59·5	2·01
80 ,, ,,	1·05	26·8	·79	1·61	40·9	1·21	2·44	61·9	1·83
90 ,, ,,	1·09	27·8	·73	1·67	42·4	1·11	2·52	64·0	1·68
100 ,, ,,	1·13	28·8	·68	1·72	43·8	1·03	2·60	66·0	1·56
110 ,, ,,	1·16	29·6	·63	1·77	45·0	·97	2·67	67·8	1·46
120 ,, ,,	1·19	30·4	·59	1·82	46·2	·91	2·73	69·4	1·37

recorded between 1873 and 1938 was published in *British Rainfall* 1938 and a supplementary table giving similar data for the years 1939 to 1946 was printed in *British Rainfall* 1946. Four such falls occurred in 1948 ; three were recorded in a severe storm in Somerset on July 28 and the fourth at Silchester in Hampshire on August 2.

Table 6c gives particulars of falls recorded in 1948 which reached at least the intensity " noteworthy ". In each case the entry gives the largest amount recorded with a mean intensity " noteworthy ", " remarkable " or " very rare ", an entry at the highest rate being in general preferred. In the case of entries ranking as " very rare " additional entries are occasionally included in italics under " noteworthy " and " remarkable ", and in the case of " remarkable " falls, under " noteworthy " also, where such information is available. Three such entries are shown at the foot of the table. Entries are credited to the calendar day rather than the " rainfall day " and times quoted are G.M.T.

The geographical distribution of the heavy falls of Table 6c is given in Table 6b above.

Of the 41 entries no less than 19 occur in south-east England. There are only three in Scotland and none in Northern Ireland. These figures do not indicate the actual relative frequencies of intense falls in the respective districts as the number of observers per unit of area is much greater in the south of England than elsewhere.

The three months June to August account for 35 of the 41 entries. The greatest number of entries on any one day, seven, were reported on June 14 and also on August 2.

Heavy local rain storms occurred in the early months of 1948 (see Section 7) but no authenticated falls of an intensity qualifying for inclusion in Table 6c were reported until the second week of *May*. The table gives " noteworthy " falls in London, Middlesex and Wiltshire on May 11. *The Times* reported that at Trowbridge (Wiltshire) trolleys were used to get workers out of a flooded factory and at Newton Abbot (Devon) a girl was struck by lightning and two others suffered shock. In one hour, from 8 to 9 p.m., the London Fire Brigade dealt with 300 calls to flooded premises, the main areas affected being Hampstead, Camden Town and Holloway. An observer at Temple Sowerby (Yorks.), recorded 1·97 inch in 3 hours and reports of damage by flooding came from many places in the Midlands and west of England.

Local thunderstorms occurred in Scotland on *June* 8, a fall of " noteworthy " intensity being recorded at Balfron, near Stirling. Heavy thunderstorms broke over south-east England and the Midlands on the morning of the 10th. At London Airport an assistant was killed by lightning, trees were struck in Windsor Forest and houses damaged at Watford. At Luton, hundreds of basements

Table 6B Number of Noteworthy Rains of Two Hours' Duration or less.
England and Wales

		S.E.	S.W.	N.E.	N.W.	Total	Scotland	Northern Ireland	Total
1948	(a)	12	9	2	2	25	1	0	26
	(b)	7	2	3	1	13	2	0	15
	Total	19	11	5	3	38	3	0	41
Mean 1925–1947 ...		26	13	7	6	53	4	1	58

(a) Observations made without autographic rain-gauges.
(b) Readings of autographic gauges.

were flooded and at Northolt Airport the water on the tarmac was 2 feet deep in places. At Batchford Heath in Hertfordshire 2·15 inches of rain fell between 8.40 and 11.10 a.m. (B.S.T.) in a series of thunderstorms.

Thunderstorms on June 14 account for seven entries in the table. Those at East Ham and West Malling were of "remarkable" intensity. At the latter place there were actually two storms separated by an interval of 40 minutes in which there was very little rain. The intensities in each storm are shown separately at the foot of Table 6c. The Chief Engineer to the London County Council reported that the storm was particularly severe in the Silvertown district where there was considerable flooding. Flooding also occurred at many other places in the south of England and as far north as Whitby.

A thunderstorm on *July* 28 in the Quantoxhead district of Somerset was of outstanding severity. Of the five heavy falls listed in Table 6c three are of " very rare " intensity. Mr. E. L. Kelting of the Mid-Wessex Rainfall Association reported that 2·55 inches of rain fell in an hour at Holford but at Crowcombe and at Fiddington, 3 miles south and east of Holford respectively, there was no rain at all. A feature of the storm was the very high wind which blew down large elm trees. A thunderstorm on the 31st resulted in much damage by lightning and severe flooding over much of Lancashire and Yorkshire. At Southport the storm was described as of almost tropical fury ; 1·68 inch of rain fell in 35 minutes and the Fire Brigade had to deal with more than 60 calls for assistance in relieving the flood. Banks, shops and cinemas were in some cases several feet under water and the famous Lord Street was awash from end to end. Considerable damage was caused by lightning and heavy rain at Richmond, where, according to the *Yorkshire Post*, the storm was the worst for 55 years. There was heavy hail in places ; at Leeming, on the Great North Road, the hailstones were said to be nearly as big as golf balls.

Heavy storms occurred over a wide area during the afternoon of Bank Holiday, *August* 2. At Silchester, to the north of Basingstoke, 2 inches fell in 35 minutes, a fall of " very rare " intensity. At Swindon and at Cranfield, Bedfordshire, there were " remarkable " falls. Considerable flooding occurred in the Thames Valley and over much of the Midlands. Violent storms were reported from many places in southern England on the 6th. At Stanstead, Essex, 1·40 inch fell in 2 hours. The *Daily Telegraph* reported that after a " tropical " storm at Folkestone flood-water was 2 feet deep on the Folkestone–London main road on the outskirts of the town. Crops in the surrounding countryside were flattened. Damage to roads and property occurred also in east London and Worthing. In the early hours of the 7th there was a " noteworthy " fall at Lewes, 1·08 inch being registered in 55 minutes at the Sewage Works. Low lying parts of the town were badly flooded and several properties sustained damage. Precipitation was very heavy in Dorset on the 8th, the fall at Stalbridge for the 24 hours amounting to 4·24 inches of which the observer, Mr. F. B. Harris, wrote : " 3·94 fell in approximately two hours, a measurement being taken immediately after the storm." Details are given in Section 7 of the prolonged and exceptionally heavy rains in the Scottish Border country on the 11th and 12th. Three falls are quoted in Table 6c, that at Swinton House, 1·85 inch in 2 hours, ranking as " remarkable".

September was more than usually wet but the rain was persistent rather than intense and there are no entries in Table 6c for that month. The only " noteworthy " fall reported in *October* was 1·64 inch in 2 hours at Cawston on the 12th. This occurred during what was described in the *Eastern Evening News* as " one of the worst October thunderstorms for several years. Vivid flashes of lightning and loud thunder accompanied miniature cloud bursts during the hour and a half of continuous rain at Cromer. Some parts of the coast road were flooded to a

depth of between a foot and 18 inches, particularly near Cley and East Runton."

December 13 was a day of thunderstorms in the southern half of England which provided the last two "noteworthy" falls of the year with widespread flooding.

Table 6c Heavy Falls in Short Periods in 1948

County and River Division	Station	Date	Amount	Began at	Duration	Rate per Hour
	(a) EYE OBSERVATIONS		in.	h. m.	min.	in.
South Devon ..7	Hawkchurch (Castle House)	July 30	·78	10 40	20	2·34
Oxford 1	Sibford Ferris (West View)	Dec. 13	·75	16 30	20	2·25
Oxford 3	N. Newington (Orchard House) ..	Dec. 13	1·01	16 55	30	2·02
Somerset 4	Stogursey (Fairfield House).....	July 28	·87	15 15	30	1·74
Wiltshire 6	Swindon (Osborne Street)	Aug. 2	1·39	14 30	40	2·09*
Essex 2	East Ham Well	June 14	1·66	15 35	45	2·21*
S. Lancashire .4	Denton Reservoir	July 31	1·22	15 45	45	1·63
S. Lancashire .4	Gorton Reservoir	July 31	1·16	15 45	45	1·55
Somerset 4	Holford (Dyche)	July 28	2·57	14 55	50	3·08†
Somerset 4	Holford.....	July 28	2·55	15 00	60	2·55†
Somerset 4	Kilve (Corner Close)	July 28	2·33	15 15	60	2·33†
Oxford 4	Ipsden (The Vicarage)	Aug. 2	1·02	15 30	60	1·02
Stirling 4	Balfron (Old Ballikinrain)	June 8	1·00	14 00	60	1·00
Somerset 4	East Quantoxhead (The Rectory)..	July 28	1·20	14 50	70	1·03
Wiltshire 1	Trowbridge (Town Hall)	May 11	1·44	15 10	75	1·15
Essex 1	West Ham (Abbey Mills)	June 14	1·38	—	75	1·10
Lincoln 4	Wold Newton Manor.....	June 14	1·04	13 45	75	·83
Lincoln 3	Lincoln (Skellingthorpe Hall)	June 14	1·60	—	90	1·07
Middlesex 1	Rayners Lane (High Worple)	May 11	1·59	18 00	90	1·06
Buckingham ..4	Uxbridge (New Denham)	June 10	1·13	08 00	90	·75
Dorset 4	Stalbridge (Grove Cottage)	Aug. 8	3·94	—	120	1·97†
Norfolk.....1	Cawston (New Street)	Oct. 12	1·64	13 00	120	·82
Hampshire 5	Winchester (Christ Church Road) .	Aug. 2	1·58	13 00	120	·79
Hampshire 5	Winchester (Beaconsfield House) .	Aug. 2	1·50	13 05	120	·75
Essex 1	Stansted (Burton Bower)	Aug. 6	1·40	15 00	120	·70
Essex 1	Stansted Nurseries	Aug. 6	1·37	15 00	120	·69
	(b) AUTOGRAPHIC RECORDS					
Aberdeen 1	Balmoral Castle Gardens.....	July 16	·61	07 10	15	2·44
London 2	St. Pancras (Camden Square)	May 11	·86	17 50	20	2·58
Gloucester 7	Little Rissington (Airfield)	Aug. 2	1·00	17 57	25	2·40
Hampshire 9	Silchester House	Aug. 2	2·00	15 10	35	3·43†
C. Lancashire .3	Southport (Hesketh Park)	July 31	1·67	15 00	35	2·86*
Yorks., N.R. ..2	Leeming (Airfield).....	July 31	1·30	17 15	35	2·23*
Bedford.....3	Cranfield.....	Aug. 2	1·50	17 50	40	2·25*
Norfolk.....1	West Raynham	Aug. 12	·96	04 20	40	1·44
Warwick 1	Kenilworth (Honiley)	Aug. 11	·92	16 00	40	1·38
Lincoln 3	Cranwell (Airfield)	June 14	·91	13 20	48	1·14
Sussex 4	Lewes (Sewage Works)	Aug. 7	1·08	00 45	55	1·18
Northampton..4	Wittering (Airfield)	June 14	·98	12 15	55	1·07
Middlesex 1	Feltham (London Airport)	June 10	1·18	07 40	72	·98
Kent 4	West Malling (Airfield)	June 14	2·04	16 45	120	1·02*
Berwick.....3	Swinton House	Aug. 12	1·85	16 40	120	·93*
Kent 4	*West Malling (Airfield)*.....	*June 14*	*·98*	*17 55*	*30*	*1·96*
Kent 4	*West Malling (Airfield)*.....	*June 14*	*·91*	*16 45*	*30*	*1·82*
Yorks., N.R. ..2	*Leeming (Airfield)*	*July 31*	*1·45*	*17 05*	*65*	*1·34*

* "Remarkable" fall. † "Very Rare" fall

Table 6D Number of Days on which specified amounts of Rain fell in specified times during 1948

County	Station	10 mm. (0·4 inch) within					15 mm. (0·6 inch) within					20 mm. (0·8 inch) within				25 mm. (1·0 inch) within			
		5 mins.	15 mins.	30 mins.	1 hr.	2 hrs.	15 mins.	30 mins.	1 hr.	2 hrs.	5 hrs.	30 mins.	1 hr.	2 hrs.	5 hrs.	1 hr.	2 hrs.	5 hrs.	24 hrs.
London	Camden Square	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1
Surrey	Croydon	0	0	0	1	2	0	0	0	1	3	0	0	0	0	0	0	0	1
,,	Kew Observatory	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	1
Kent	Lympne	0	0	2	2	5	0	0	1	1	2	0	0	0	0	0	0	0	1
Hampshire	South Farnborough	0	0	0	1	2	0	0	0	0	3	0	0	0	2	0	0	0	1
Berkshire	Abingdon	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	1
Suffolk	Mildenhall	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	0	0	1
Devon	Plymouth	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Somerset	Bristol	0	1	2	2	5	0	0	0	1	5	0	0	0	1	0	0	0	8
Lincoln	Cranwell	0	2	2	3	5	0	1	1	2	4	0	1	1	3	0	1	2	3
Cheshire	Manchester (Ringway)	0	0	0	1	3	0	0	0	1	1	0	0	0	1	0	0	1	5
Lancashire	Southport	0	1	1	2	6	0	1	1	1	3	0	1	1	2	0	0	0	2
Yorkshire	Leeming	1	1	1	2	3	1	1	1	2	3	1	1	1	2	1	1	2	2
North'land	Acklington	0	0	1	2	4	0	0	0	2	4	0	0	0	1	0	0	1	6
Cumberland	Keswick	0	0	0	1	9	0	0	0	2	14	0	0	1	7	0	0	1	16
Cardigan	Aberporth	0	1	1	2	4	0	0	0	0	4	0	0	0	2	0	0	0	3
Anglesey	Holyhead	0	0	0	0	2	0	0	0	0	6	0	0	0	0	0	0	0	4
Dumfries	Eskdalemuir Observatory	0	0	0	4	12	0	0	0	3	16	0	0	0	7	0	0	3	15
Renfrew	Renfrew	0	0	0	0	5	0	0	0	0	6	0	0	0	1	0	0	1	3
Fife	Leuchars	0	0	0	0	4	0	0	0	0	5	0	0	0	1	0	0	0	2
Aberdeen	Dyce Airfield	0	1	1	1	6	1	1	1	1	4	1	1	1	3	0	0	0	4
Shetland	Lerwick	0	0	0	1	3	0	0	0	·1	4	0	0	0	3	0	0	1	4
Fermanagh	Castle Archdale	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0	1
Antrim	Aldergrove	0	0	0	0	2	0	0	0	0	5	0	0	0	0	0	0	0	2

The falls are not necessarily continuous nor are they always confined to one calendar day. Not more than one fall of each specified amount is credited to any day ; if more than the specified amount fell on any day, that part of it which fell in the shortest time is used for the table. An entry in any of the first four columns under the heading 10 mm. (0·4 inch) naturally recurs in the column or columns to the right, and there is a similar recurrence of the entries under the headings 15 mm. (0·6 inch), 20 mm. (0·8 inch) and 25 mm. (1·0 inch).

7 Heavy Falls on Rainfall Days in 1948

THE daily measurements of rain which are set out in this Section are (*a*) falls amounting to 2·5 inches or more on the rainfall day, and (*b*) falls which amount to at least 7·5 per cent of the total recorded for the year 1948. A fall of 2½ inches in a day at any station is sufficiently remarkable to be noticed, but it is likely to be of more frequent occurrence in areas which are normally wet, such as mountainous districts, than elsewhere. Hence the criterion of 7½ per cent is introduced as well in order to admit certain falls of less than 2½ inches in areas where the total rainfall of the year does not exceed 33·3 inches.

A summary of the contents of this Section in each of the seventy volumes of *British Rainfall*, 1865–1934, was set out in an article in Part IV of *British Rainfall* 1934. The article also includes a list of the absolute highest daily rainfall and the absolute highest daily percentage recorded in each year. Corresponding figures for the years 1935 to 1948 are set out in Table 7A.

Table 7A Maximum Daily Fall and Maximum Percentage

Year	ABSOLUTE HIGHEST RAINFALL				ABSOLUTE HIGHEST PERCENTAGE				Year
	Depth	Per cent.	Station	Div.	Per cent.	Depth	Station	Div.	
	in.	%			%	in.			
1935	6·16	5·7	New Dungeon Ghyll	X	12·2	4·83	Batheaston Reservoir	V	1935
1936	5·80	..	Glenshiel	XVIII	12·8	3·97	St. Albans (Oaklands)	III	1936
1937	5·76	18·2	Waltham-on-Wolds ..	VII	18·2	5·76	Waltham-on-Wolds .	VII	1937
1938	7·14	5·2	Buttermere (Hassness)	X	15·4	5·61	Torquay (Abbey Park)	V	1938
1939	5·08	4·8	Blaenau Festiniog ...	XI	11·8	4·01	Milford W.W.....	VI	1939
1940	6·23	6·8	Rhondda (Llyn Fawr)	XI	14·7	4·18	Scarborough (Osgodby)	IX	1940
1941	5·10	9·2	Merthyr Tydfil	XI	18·8	4·54	Wickham Bishops ...	IV	1941
1942	5·33	6·2	Grange-in-Borrowdale	X	12·0	3·55	Burnham (Chalbury)	V	1942
1943	4·44	4·6	Grange-in-Borrowdale	X	10·5	2·78	Torphins School House	XVII	1943
1944	5·20	3·2	Snowdon (Llydaw In.)	XI	14·0	4·45	Kilve (Harefield)	V	1944
1945	4·85	5·4	Borrowdale (Moraine)	X	16·6	3·82	Boston (Grand Sluice)	VII	1945
1946	6·83	6·4	Princetown ..... (H.M. Prison)	V	12·6	3·48	Doxford Hall	X	1946
					12·6	3·51	Chathill (Preston Twr.)	X	1946
1947	6·28	6·4	Glenquoich.....	XVIII	20·8	5·04	Wisley (Outfall Wks.)	II	1947
1948	6·21	17·0	Kelso (Floors)	XII	17·0	6·21	Kelso (Floors)	XII	1948

The exceptionally heavy fall of 6·21 inches at Floors, near Kelso, Roxburghshire, on August 12 gave both the maximum daily rainfall and the maximum percentage in 1948.

Particulars of the seven largest falls of rain during 1948 are given in Table 7B which shows also the total amount for the year (in five cases) and the percentage of this total accounted for by the highest daily fall. All seven entries are for the same day, August 12, at stations in Roxburgh, Berwick and East Lothian. No daily entries exceeding 4 inches have previously been available for these counties (see *British Rainfall* 1934, p. 279).

Heavy rains throughout *January* were associated with a succession of deep depressions or troughs of low pressure which passed over or near the British Isles. The period 10th–13th was particularly unsettled with widespread precipitation accompanied by strong winds and gales.

On the 10th many scattered areas from Dartmoor to Argyll, and also County Down, had more than 2 inches of rain ; falls exceeded 4 inches locally in Glamorgan and on Snowdon. The 12th also was a very wet day in western districts with up to 4 inches of rain in South Wales. Severe and widespread flooding resulted from the heavy rains. *The*

Table 7B The largest Daily Rainfalls in 1948

Date	Div.	Station	Depth	Per cent. of Year	Total for Year
			in.	%	in.
Aug. 12...	XII	Kelso (Floors)	6·21	17·0	36·56
Aug. 12...	XIII	Paxton (Tweedhill)	5·55	15·6	35·51
Aug. 12...	XIII	Lammermuir Hills (Kingside)	5·48	—	*
Aug. 12...	XII	Kelso (Henderside Park)	5·42	15·4	35·24
Aug. 12...	XIII	Swinton House	5·10	14·9	34·18
Aug. 12...	XIII	Lammermuir Hills (West Hopes)	5·03	11·1	45·47
Aug. 12...	XIII	Duns (Nisbet House Gardens)	5·02	—	*

* 1948 record incomplete

Of the 379 falls which reached or exceeded 2·50 inches, 154 reached or exceeded 3·00 inches, 38 reached or exceeded 4·00 inches and seven reached or exceeded 5·00 inches.

In view of the large number of entries available on certain days, the number included here has been limited. Thus on January 10, January 12, August 2 and August 12 respectively, 18, 33, 57 and 19 entries below 3 inches have been omitted. On August 11, 24 entries below 2·25 inches—but all qualifying as being at least 7·5 per cent of the year's rainfall—have been omitted.

CHRONICLE

The amounts in this section cover the 24 hours commencing at 9 a.m. G.M.T. on the day of entry.

Times reported that at Worcester, where the River Severn was 13 ft. 4 in. above normal on the morning of the 14th and still rising, people retreated to the upper rooms of their houses as the water came through the doors. A ferry service of large punts was organized at Shrewsbury, where the river was stated to be 18 ft. 4 in. above normal level at Montford Bridge. At Hereford the Wye was dangerously high and more than 100 houses were flooded to a depth of 2 feet. Army amphibious craft were used to take food and other necessities to people marooned in isolated farms on the Montgomery-Shropshire border.

January 1st

Ross and Cromarty	*in.*	or %
Loch Droma	2·89	3·9

January 2nd

	in.	or %
Merioneth		
Llanuwchllyn	3·00	3·8

January 3rd

Merioneth		
Blaenau Festiniog (Oakeley Qu.)	3·79	2·9
Blaenau Festiniog (Llechwedd Qu.)	3·37	2·7
Carnarvon		
Capel Curig (Glyn Curig)	4·06	3·7
Snowdon (Cwm Dyli)	*3·95*	*2·5*
Snowdon (Cwm Dyli, Old Road)	*3·90*	*2·6*

January 4th

Carnarvon		
Snowdon (Cwm Dyli)	*2·90*	*1·8*
Snowdon (Cwm Dyli, Old Road)	*2·74*	*1·8*

January 10th

Glamorgan		
Rhondda W.W. (Llyn Fawr Res.) *n.g.*	3·26	3·8
Maesteg (Welfare Park)	3·00	3·5
Ystradyfodwg (Tyntyla Hospital)	*3·12*	*3·7*
Gelligaled Recreation Ground	*4·04*	*4·3*
Treorchy Pumping Station	*3·44*	*3·2*
Ferndale Park	3·94	4·4
Treherbert Park	*3·41*	*3·0*
Treherbert (Tyn-y-waun) *new g.*	*3·06*	*2·7*
Rhondda (Castell Nos Reservoir)	*3·42*	*3·1*
Rhondda (Lluest Wen Filters)	*3·00*	*2·8*
Rhondda (Lluest Wen Reservoir)	3·84	3·2
Carmarthen		
Llyn-y-fan Fach (Nant Coch)	*3·08*	*3·2*
Llyn-y-fan Fach (Troed-y-Foel)	*3·12*	*3·3*
Merioneth		
Blaenau Festiniog (Oakeley Qu.)	*3·40*	*2·6*
Blaenau Festiniog (Llechwedd Qu.)	*3·02*	*2·4*
Carnarvon		
Snowdon (Cwm Dyli)	4·20	2·7
Snowdon (Cwm Dyli, Old Road)	4·40	2·9
Down		
Silent Valley (Belfast Waterworks)	3·48	6·0

January 12th

Glamorgan		
Rhondda W.W. (Llyn Fawr Res.) *n.g.*	*3·25*	*2·8*
Pontypridd (Ty-Gwyn Reservoir)	3·66	5·1
Pontypridd (County School)	3·78	4·8
Pontypridd (Lanwood Reservoir)	3·56	4·8
Porth Park	4·23	4·9
Ystradyfodwg (Tyntyla Hospital)	3·59	4·2
Gelligaled Recreation Ground	4·46	4·7
Treorchy Pumping Station	3·70	3·5
Treherbert Park	3·73	3·3
Treherbert (Tyn-y-waun) *new g.*	3·30	3·0
Rhondda (Castell Nos Reservoir)	4·62	4·2
Rhondda (Lluest Wen Filters)	4·55	4·3
Rhondda (Lluest Wen Reservoir)	*3·66*	*3·1*
Rhymney Bridge Reservoir	3·10	4·6
Brecon		
Ystradfellte Reservoir	3·51	3·6
Cardiff W.W. (Garw-nant)	3·76	4·2
Cardiff W.W. (Cantref Reservoir)	3·26	3·7
Cardiff W.W. (Beacons Reservoir)	3·00	3·0
Taf Fechan (Neuadd Res. No. 1A)	3·26	3·6
Taf Fechan (Neuadd Res. No. 11)	3·21	3·7
Radnor		
Birmingham W.W. (Tynant)	3·28	4·3
Montgomery		
Lake Vyrnwy (Experimental Stn.)	3·15	4·2

A westerly gale, which was particularly severe in exposed areas along the Scottish coasts, accompanied heavy rain on *February* 8. The *Oban Times* reported that at Port Glasgow six 50-ton cranes were blown down. The cranes which were over 100 feet high were reduced to twisted girders.

February 1st

	in.	or %
Argyll		
Morvern (Kingairloch)	*2·66*	*2·1*
Glenleven (Kinlochleven)	*2·75*	*2·3*

February 8th

Merioneth		
Bala (Craig Nant)	2·97	3·1
Dunbarton		
Loch Sloy (Coiregrogain)	*2·87*	*1·9*
Loch Sloy (Sloy Power Station)	*2·57*	*1·9*
Loch Sloy (Sloy Dam)	*3·00*	*1·8*

There were few notable daily falls in *March*—the driest month of the year—but an intense depression off north-west Ireland on the 31st brought widespread rain and severe gales to western districts. More than an inch of rain fell in many scattered areas from Devon to Perthshire and falls exceeded 4 inches in the English Lake District. Heavy seas and high winds caused considerable damage in coastal areas.

March 7th

	in.	or %
Merioneth		
Blaenau Festiniog (Oakeley Qu.)	*3·36*	*2·6*
Blaenau Festiniog (Llechwedd Qu.)	*2·70*	*2·1*
Carnarvon		
Snowdon (Cwm Dyli)	*2·80*	*1·8*
Snowdon (Cwm Dyli, Old Road)	*2·70*	*1·8*
Argyll		
Ardgour House	*2·58*	*2·1*
Glenfyne Lodge	2·72	2·2
Inverness		
Spean Bridge	*2·55*	*2·7*

March 20th

	in. or %	
Dunbarton		
Loch Sloy (Sloy Dam)	*2·63*	*1·6*
Allt a Chnoic	2·65	1·8
Inverness		
Loch Quoich (Glenquoich)	2·58	2·1

March 31st

Durham		
Forest-in-Teesdale	2·54	4·3
Burnhope Reservoir	2·78	4·6
Cumberland		
Watermillock (Lake View)	3·25	4·9
Thirlmere (Dale Head Hall)	4·28	4·1
Grange-in-Borrowdale (Bield)	4·33	4·1
Braithwaite (Blackwood)	*2·55*	*4·3*
Westmorland		
Hawes Water (Burn Banks)	4·24	5·1
Glamorgan		
Ferndale Park	*2·57*	*2·8*
Treherbert Park	*2·52*	*2·2*
Treherbert (Tyn-y-waun) *new g.*	*2·57*	*2·3*
Rhondda (Castell Nos Reservoir)	*2·55*	*2·3*
Rhondda (Lluest Wen Reservoir)	*2·58*	*2·2*
Lanark		
Daer (Sweetshawhead)	2·50	..
Perth		
Lochearnhead (Ardvorlich)	2·76	3·1
Loch Tay (Ardeonaig)	2·60	3·7

On the evening of *April* 29 a thunderstorm of unusual severity wrought havoc in Cleethorpes and Grimsby. The amount of rain measured at Cleethorpes climatological station was 1·67 inch but readings of 2·52 and 2·45 inches were reported from "unofficial" gauges in the town at Campden Crescent and Sidney Park. The Borough Engineer writes: "The storm was probably the most severe that Cleethorpes has ever experienced, and was accompanied by thunder, lightning and a considerable amount of hail which, in places, laid some inches deep on the ground. . . . The bulk of the rain fell in about two hours during which there were periods of rain of almost tropical intensity. Flooding was widespread. . . . All pumps were working continuously at the Town Station from 8.45 p.m. until 10 p.m. on the following day —a total of 25¼ hours."

May 1st

	in. or %	
Norfolk		
Cromer (Howards Hill)	1·75	8·6

Heavy rain fell in northern counties of England on *June* 2. More than an inch fell in most places to the north of a line drawn from the Mersey to the Humber. Many observers in the English Lake District and to the south of the Cleveland Hills recorded between 3 and 4 inches.

June 2nd

	in. or %	
Lancashire		
Coniston (Holywath)	*2·52*	*2·3*
Yorkshire		
Hull (Springhead)	2·01	8·1
Beverley (E. Riding Mental Hosp.)	2·02	7·6
Driffield (Council School)	2·00	8·2
Driffield (Airfield)	2·19	8·6
Lowthorpe (The Elms)	1·98	7·8
Weaverthorpe (The School House)	2·45	8·2
Coxwold (The Old Hall)	2·36	8·1
Felixkirk (Mount St. John)	2·06	7·7
East Harlsey (Harlsey Hall)	1·94	8·0
Welburn	2·13	8·0
Hovingham Hall	2·10	8·8
Ampleforth Abbey	3·22	9·9
Oswaldkirk (Leysthorpe Hall)	3·05	10·2
Nunnington Hall Gardens	2·40	9·2
West Ayton (Derwent House)	2·21	8·1
Farndale (Vicarage)	3·82	10·0
Bransdale (Hull Waterworks)	3·80	10·0
Danby (Botton Hall)	2·79	6·9
Whitby (Park Hall, Aislaby)	2·31	8·0
Whitby (Pannett Park)	1·91	8·7
Guisborough (Lockwood Reservoir)	2·45	7·6
Kildale Hall	2·55	7·4
Crathorne Hall Gardens	1·94	8·7
Durham		
Egglescliffe	2·32	8·9
Cumberland		
Borrowdale (The Moraine)	3·00	—
Grange-in-Borrowdale (Bield)	*2·93*	*2·8*
Braithwaite (Blackwood)	3·51	4·4

June 3rd

Carnarvon		
Capel Curig (Glyn Curig)	*2·75*	*2·5*

June 6th

Cumberland		
Borrowdale (The Moraine)	*2·52*	—
Glamorgan		
Treherbert Park	*2·50*	*2·2*
Treherbert (Tyn-y-waun) *new g.*	*2·50*	*2·2*
Rhondda (Castell Nos Reservoir)	*2·58*	*2·3*
Rhondda (Lluest Wen Reservoir)	*2·64*	*2·2*
Carnarvon		
Snowdon (Cwm Dyli)	*3·10*	*2·0*
Snowdon (Cwm Dyli, Old Road)	*3·30*	*2·2*

Inverness	*in.*	or %
Loch Ailort (Inverailort)	2·72	2·6

June 10th

Hertfordshire		
Batchworth Heath (Bathend)	2·15	8·4

Thunderstorms on June 14 were most severe in and near London. The meteorological officer at West Malling Airfield wrote : " Electrical apparatus in the Flying Control Office was struck and damaged, the clerk on duty reporting blue flames running up and down the cables on the wall and around the telephone. . . . Houses in East Malling were struck and roofs badly damaged. . . . The landlord of " The Woodman " was shaving with an electric razor and a flash appeared to strike his bathroom. The razor was wrenched out of his hand and thrown to the floor. He attributes his feeling no shock to the fact that he was standing on a rubber mat. . . . Roads near the station soon became torrents of thick muddy water, and some gardens on sloping ground had the top soil with all their growing crops washed away."

June 14th

London	*in.*	or %
Barking Outfall.....	2·60	10·9
Kent		
West Malling (Airfield)	2·54	9·7
Essex		
East Ham (Central Park)	2·41	9·9
East Ham Well	1·77	7·7
Ilford (Loxford Park)	2·56	10·0
Ilford (Valentines Park)	2·07	8·5
Ilford (Clayhall Park)	2·31	9·1
Ilford (Barkingside).....	2·19	8·8
Manor Park (City of London Cem.)	2·30	9·0
Wanstead (Red Bridge)	2·28	9·2
Lincolnshire		
Market Deeping (Wilsthorpe)	2·08	8·0

The falls of *July* 3–4 were associated with a depression which crossed northern Scotland and subsequently moved south-south-east to the Netherlands. Thunderstorms were widespread and severe in the closing days of the month (see also Section 6).

July 3rd

Merioneth	*in.*	or %
Blaenau Festiniog (Oakeley Qu.) ...	*2·91*	*2·3*
Blaenau Festiniog (Llechwedd Qu.) .	*2·84*	*2·3*
Carnarvon	*in.*	or %
Beddgelert (Primary School)	*2·62*	*2·7*
Snowdon (Cwm Dyli)	*2·95*	*1·9*
Snowdon (Cwm Dyli, Old Road) ...	*2·95*	*1·9*
Renfrew		
Shaws W.W. (Compensation Res.)..	2·52	2·8
Shaws W.W. (Loch Thom)	2·59	2·7
Shaws W.W. (Hole Glen)	2·85	2·9
Dunbarton		
Loch Sloy (Sloy Power Station).....	*2·67*	*2·0*
Argyll		
Glenleven (Blackwater Dam, South)	2·60	2·1
Inverness		
Glenleven (Blackwater Dam, North)	2·58	2·2

July 4th

Montgomery		
Machynlleth (Plas Llwyn Gwern) ...	*2·69*	*3·0*

July 28th

Somerset		
Holford (Dyche)	2·57	7·0
Holford	2·55	7·2

July 29th

Glamorgan		
Cardiff (St. Fagans Castle)	2·60	4·6

July 31st

Durham		
Darlington Waterworks	2·66	9·5
Darlington (Broken Scar)	2·76	9·2
Kirkcudbright		
Clatteringshaws (Tunnel Intake)	2·98	3·7

The heavy rains of *August* were generally associated with thunderstorms (see Section 6). During a severe storm on the 2nd (Bank Holiday), more than two inches of rain fell in scattered areas between East Anglia and South Wales including much of the midland and southern counties. At Silsoe, in Bedfordshire, Mr. H. I. Godfrey measured 3·94 inches, the heaviest daily fall ever recorded in the county. The Borough Engineer of Bedford reported that a storm of unusual severity gave 3·46 inches in approximately 13 hours. Two observers in Glamorgan, Mr. T. Gibbins of Glynfelin, Neath, and Mr. R. I. Nicholl of Merthyr Mawr recorded their heaviest daily falls since they began observations in 1911.

To save space 57 entries under 3 inches have been omitted from the published list of heavy falls.

August 2nd

	in.	or %
Oxfordshire		
Broughton Poggs	3·63	11·3
Bedfordshire		
Meppershall (High Street)	3·00	12·1
Letchworth (New Sewage Works)	3·62	15·5
Stotfold (Three Counties Hospital)	3·25	14·2
Silsoe (The Red House)	3·94	14·0
Cranfield	3·27	12·5
Bedford (Castle Road)	3·15	12·5
Bedford (Bedford Park)	3·46	14·3
Cambridgeshire		
Cambridge (Oxford Road)	3·15	11·5
Gloucestershire		
Cranham (Woodside)	3·44	9·4
Glamorgan		
Briton Ferry (Cefn Court)	3·62	6·3
Neath (Cimla Reservoir)	4·03	6·0
Neath (Gnoll Reservoir)	3·62	5·6
Neath (Brynteg)	3·16	5·3
Neath (Glynfelin)	3·04	4·3
Cowbridge (Pentre Meyrick)	3·06	5·7
Merthyr Mawr	3·05	5·8
Bridgend (Eiw Graig)	3·02	5·9

On August 7 a vigorous depression travelled eastwards across southern England and subsequently moved north-east to the south of Norway. Gales were recorded in coastal districts and heavy rain fell in many places.

August 6th

	in.	or %
Surrey		
Caterham (White Knobs Way)	2·53	7·3
Kent		
West Wickham (Pumping Station)	2·22	8·1
Eynsford Pumping Station	2·27	7·9
Beckenham (Hayes Way)	2·40	9·5
Sussex		
Rottingdean School	2·33	7·6
Goring-by-Sea (Highdown Tower)	1·98	7·7
Brighton W.W. (Balsdean Res.) 2	2·58	7·9
Brighton W.W. (Balsdean P.S.) 1	2·39	7·9
Cambridgeshire		
Upwell (Marmont Priory Lock)	1·81	8·1
Essex		
Rainham (Riverside Sewage Works)	1·52	7·7
Kelvedon (Harboro Hall)	1·78	7·8
Kelvedon (Messing Street)	1·58	7·6
Norfolk		
Outwell (Well Creek Sluice)	1·90	8·5
Lincolnshire		
Tydd (North Level Sluice)	2·61	9·1
Brecon		
Ystradfellte Reservoir	*2·53*	*2·6*

August 7th

Midlothian		
Pentland Hills (Martyrs Cross)	3·32	7·2
Pentland Hills (Loganlea)	*2·65*	*5·4*
Pentland Hills (Glencorse Filters)	3·15	6·9
Pentland Hills (Glen Cottage)	3·27	6·7
Boghall	2·95	6·7
Pentland Hills (Clubbiedean Res.)	3·19	8·2
Fairmilehead (Frogston Road)	3·45	8·4
Fairmilehead (Waterworks)	3·49	8·5
Liberton (Alnwick Hill)	3·33	9·2
Colinton (Firhill Tank)	3·58	8·6
Edinburgh (Hermitage of Braid)	2·88	7·4
Edinburgh (Craiglockhart)	2·95	7·2
Edinburgh (Blackford Hill)	2·80	7·7
Edinburgh (Astley Ainslie Institute)	3·04	8·0

August 8th

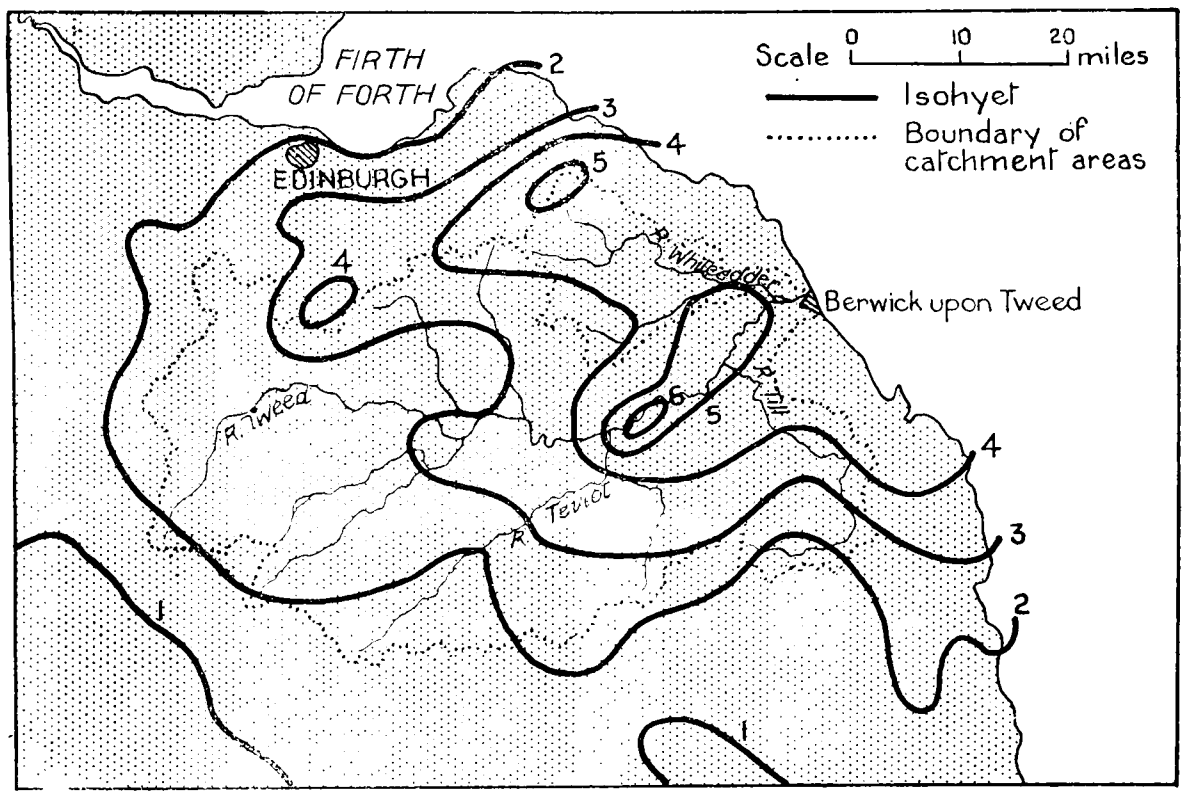
Dorsetshire		
Sherborne (Barton Gardens)	2·79	8·2
Stalbridge (Grove Cottage)	4·24	11·1
Shaftesbury (St. Margaret's Marsh)	3·71	10·8
Morayshire		
Fochabers (Gordon Castle)	2·44	7·8

A shallow depression moved eastwards across the Midlands to the southern North Sea on August 11. Rain fell continuously during that night in the north of England and throughout the 12th in south-east Scotland. The falls were unprecedented in the Border country and caused destructive flooding and exceptional damage to crops, farms and even to whole villages.

A detailed report of the abnormal rainfall and a discussion of the synoptic situation with which it was associated were published in the *Meteorological Magazine* for January 1949.

The accompanying map shows the distribution of the rainfall on the 12th. The areas in square miles covered by falls exceeding specified amounts are set out below and are compared with corresponding values for the famous Bruton storm of June 28, 1917, and the equally remarkable storm in East Anglia on August 26, 1912.

	Tweed Sq. mi.	Bruton Sq. mi.	E. Anglia Sq. mi.
More than 6 inches	8	85	268
„ „ 5 „	130	288	720
„ „ 4 „	800	809	1,071
„ „ 3 „	1,525	1,931	2,007
„ „ 2 „	2,900	4,419	3,827



Rainfall map of August 12, 1948 (Isohyets are in inches)

The area with more than 4 inches of rain in the Tweed Valley storm is comparable with the areas receiving 4 inches in the Bruton and East Anglian storms. Within the other limits quoted, however, it will be seen that the areas of heavy rain were greater in both the Bruton and East Anglian storms than in the Tweed storms.

Space does not permit of more than a few quotations from the vast amount of information received concerning the disastrous effects of this exceptionally heavy rainfall. The Duke of Roxburgh reported that at Floors Castle, near Kelso, where 6·21 inches of rain fell on the 12th, the Tweed rose 6½ inches higher than the highest previous flood mark recorded in February 1831. He added: "When one visualises that the previous maximum recorded 117 years ago was exceeded, it is not surprising that the devastation caused was so violent and so widespread." Mr. George Baxter, Edinburgh's City Water Engineer, commented: "It was fortunate for the valley of the Tweed that the Talla Reservoir level was 5 feet below top water level or the flooding at Kelso would have been more extensive."

Some facts are impressively set out by the

Farmers Weekly : ". . . There is no known parallel to the rise of the water level. The Whiteadder, running from the heart of the Lammermuirs, rose 16 feet above normal, while the Tweed rose 17 feet, its highest recorded level above normal. Nothing could stand against this rapidly rising torrent of water. . . . Stock which had not time to reach higher ground were swept away and drowned. Trees, shrubs, wooden buildings, fencing and other debris floated down on the turbulent surface of the rivers, to be later piled upon the beaches as they reached tidal waters. Carcases of animals also lay there in numbers when the tides had receded. . . . So many bridges have been swept away—there are 40 in Berwickshire and Northumberland, and many more have been rendered unsafe—that transport routes have been completely dislocated or entirely suspended."

A report prepared by the Department of Health for Scotland states : " Seven railway bridges and two road bridges were destroyed by floods in the Eye Valley alone, a remarkable amount of destruction for so small a stream. In addition to the flooding of the Eye Water and Whiteadder a considerable body of water was impounded by the railway embankment at the point where it crosses the valley of the Horn Burn. This was caused by the blocking of the culvert which normally carries the waters of the Horn Burn through the base of the embankment. The lake so formed was some 30 to 40 feet deep near the embankment and flooded all the land almost up to the level of the 200-foot contour and it extended south-west about three-quarters of a mile."

In the list of falls for August 11, 24 entries, which, though under 2·25 inches, represented at least 7·5 per cent. of the year's rainfall, have been omitted ; 19 entries under 3 inches have been omitted from the August 12 list.

August 11th

	in.	or %
Shropshire		
Overton (Sodylt Hall)	2·60	8·0
Staffordshire		
Hanley Sewage Works	3·41	9·4
Werrington (Wallmires Pump. Stn.)	2·84	7·0
Yorkshire		
Pontefract (The King's School)	2·72	12·3
Selby (Brayton Barff Waterworks)	2·39	6·0
Tadcaster (Church Fenton)	2·27	10·1
Adel (Eccup East)	2·35	8·7
Harewood House	2·60	10·6
Askham Bryan (Experimental Farm)	2·35	10·7
York (Bishopthorpe Road)	2·35	11·1
York (Acomb Landing)	2·52	10·8
Spofforth (Sewage Works)	2·34	8·6
Harrogate (Harlow Moor Obsy.)	2·36	8·0
York (The Retreat)	2·30	9·5
York (Museum)	2·35	10·0
Durham		
West Hartlepool (Waterworks)	2·37	9·7
Hartlepool (Hart Reservoir)	2·38	9·9
Shotton (New Winnings Pump. Stn.)	2·69	8·5
Easington (Mill Hill Reservoir)	2·25	7·8
Seaham (Dalton Pumping Station)	2·35	7·8

August 12th

Northumberland		
Howick Hall Gardens	3·22	9·3
Doxford Hall	3·86	11·0
Chathill (Preston Tower)	4·26	11·7
Belford (Newlands)	4·35	14·5
Cornhill (Pallinsburn)	4·47	14·6
Berwick-on-Tweed (Ramparts)	4·62	16·4
Roxburghshire		
Yetholm (Old Graden)	4·67	13·0
Denholm (Spital Tower)	3·06	8·3
Jedburgh (Jedneuk)	3·72	11·9
Crailing	3·49	11·1
Ancrum (Monteviot)	3·72	10·9
Melrose (Bowden, Kippilaw)	3·56	9·7
St. Boswells (Hawthornden)	3·90	11·0
St. Boswells (Monksford)	3·70	—
Melrose (Dingleton Hospital)	3·15	9·2
Kelso (Floors)	6·21	17·0
Kelso (Hendersyde Park)	5·42	15·4
Lauder (The Roan)	3·00	8·1
Selkirk		
Caddonfoot (Fairnilee)	3·12	7·5
Peebles		
Eddlestone (Portmore Reservoir)	4·20	9·6
Berwickshire		
Earlston (Cowdenknowes)	3·30	9·3
Earlston (Carolside)	3·23	—
Coldstream (Lochton)	4·86	15·0
Swinton House	5·10	14·9
Paxton (Tweedhill)	5·55	15·6
Marchmont House	4·00	10·7
Duns (Nisbet House Gardens)	5·02	—
Duns (Oxendean)	4·45	11·1
Duns Castle	4·73	11·8
Duns (Manderston)	4·81	11·9
Longformacus (Whitchester)	4·77	12·1
St. Abb's Head (Shore Signal Stn.)	4·44	17·2
Cockburnspath (Redheugh)	4·48	13·1

East Lothian	*in.*	or %
Lammermuir Hills (Kingside)	5·48	—
Lammermuir Hills (West Hopes)	5·03	11·1
Midlothian		
Moorfoot Hills (Gladhouse Res.)	4·22	10·0
Gorebridge	3·80	10·7
Pentland Hills (Glencorse Filters)	*3·04*	*6·7*
Pentland Hills (Glen Cottage)	*3·25*	*6·7*
Newbattle (Public School)	3·68	10·1

Depressions passing to the north of the British Isles brought heavy rain to Scottish districts in the latter half of August.

August 15th

Ross and Cromarty	*in.*	or %
Fearn (Geanies)	2·50	9·3
Tain (Tarlogie House)	2·52	7·5

August 16th

Angus		
Forfar (Pitscandly House)	2·53	6·4

August 22nd

Inverness		
Loch Arkaig (Achnacarry)	2·51	2·6

August 23rd

Inverness		
Loch Quoich (Kinlochquoich)	*2·65*	*1·8*
Ross and Cromarty		
Glenshiel (Kyle)	*2·71*	*1·9*

Heavy rain on *September* 12 caused flooding in Rugby, Oxford, Gloucester and many places in South Wales but none of the recorded falls reached the limits for inclusion in this article. On other dates in September the heavy falls were confined to western and northern districts.

September 2nd

Lancashire	*in.*	or %
Coniston (Holywath)	2·58	2·4
Cumberland		
Ulpha	2·62	3·0
Glamorgan		
Rhondda W.W. (Llyn Fawr Res.) *n.g.*	*2·66*	*2·3*
Treorchy Pumping Station	*3·04*	*2·9*
Treherbert Park	*2·72*	*2·4*
Rhondda (Castell Nos Reservoir)	*2·53*	*2·3*
Rhondda (Lluest Wen Reservoir)	*2·50*	*2·1*

September 3rd

Durham		
Durham (Houghall Hort. Stn.)	2·59	7·9

September 7th

Merioneth	*in.*	or %
Blaenau Festiniog (Oakeley Qu.)	*3·13*	*2·4*
Blaenau Festiniog (Llechwedd Qu.)	*2·50*	*2·0*
Carnarvon		
Snowdon (Cwm Dyli)	*2·50*	*1·6*

September 18th

Argyll		
Glencoe Gardens	*2·78*	—
Inverness		
Loch Quoich (Kinlochquoich)	*2·69*	*1·9*

September 24th

Argyll		
Ardgour House	*2·76*	*2·3*
Inverness		
Loch Quoich (Kinlochquoich)	*2·56*	*1·8*

September 25th

Argyll		
Ardgour (Inversanda)	*3·10*	*2·6*

September 26th

Argyll		
Loch Shiel (Polloch House)	2·60	2·9
Morvern (Kingairloch)	4·72	3·6

September 27th

Merioneth		
Blaenau Festiniog (Oakeley Qu.)	*2·50*	*1·9*
Inverness		
Loch Quoich (Kinlochquoich)	*2·98*	*2·1*

Heavy falls listed in *October* are confined to Scottish stations. Rain was persistent and specially heavy in the north-west. Daily measurements exceeded 4 inches locally on the 9th and 24th.

There was serious flooding on Loch Lomondside and in the Vale of Leven after the heavy rains of the 9th.

October 1st

Argyll	*in.*	or %
Ardgour (Inversanda)	3·30	2·7
Ardgour House	3·60	3·0
Loch Awe (Inverinan)	2·75	2·6
Inverness		
Glen Loy (Erracht)	3·05	3·0
Spean Bridge (Gairlochy)	3·15	3·3
Fort William (Teviot)	2·72	2·8
Fort William (Glasdrum)	2·73	2·8
Skye (Broadford)	2·66	2·9
Ross and Cromarty		
Glenshiel (Kyle)	3·70	2·6
Inverness		
Loch Quoich (Kinlochquoich)	3·48	2·4

October 8th

Inverness	*in.*	or %
Skye (Grula)	2·70	2·6

October 9th

Dunbarton		
Helensburgh (Valve House)	3·43	4·7
Balloch (Loch Lomond Park)	2·75	3·6
Glen Finlas Reservoir No. 2	4·08	3·5
Loch Sloy (Coiregrogain)	3·15	2·0
Loch Sloy (Sloy Power Station)	3·15	2·4
Stirling		
Stronachlachar (Invergyle)	2·68	2·6
Argyll		
Glencoe Gardens	2·88	—
Crarae Lodge	*2·50*	*2·6*
Inveraray Castle Gardens	2·64	2·3
Glenfyne Lodge	*2·52*	*2·0*
Toward (Knockdow Gardens)	2·70	3·5
Dunoon	2·65	2·7
Perth		
Invertrossachs	2·70	3·2
Loch Vennachar	2·60	3·3
Glengyle	2·50	2·1

October 23rd

Argyll		
Crarae Lodge	2·67	2·8

October 24th

Dunbarton		
Loch Sloy (Coiregrogain)	*2·52*	*1·6*
Loch Sloy (Sloy Dam)	4·60	2·8

November 4th

Ross and Cromarty		
Dundonnel House	2·71	3·5

November 14th

Merioneth		
Bala (Craig Nant)	*2·90*	*3·0*

November 17th

Cumberland		
Borrowdale (The Moraine)	*2·51*	—

In the first fortnight of *December* a complex area of low pressure was situated in the north-east Atlantic while secondary disturbances developed near the Azores and, after moving quickly east, turned north-east along the western seaboard or over the western districts of the British Isles. Rain occurred frequently and was heavy locally at times, particularly in the west.

Floods followed a heavy downpour in the north Midlands on the 30th. The *Leicester Mercury* reported five feet of water near the railway line at Asfordby. The River Soar overflowed and burst its banks over a stretch of several miles, covering fields and flooding roads near Whetstone Enderby and the main Leicester road to Narborough. Sutton Bonington, Loughborough and Coalville were other places which sustained considerable flood damage. Farmers were out during the night herding cattle from waterlogged pasture land.

December 2nd

Devon	*in.*	or %
Dartmoor (Swincombe)	2·95	4·0
Princetown (H.M. Prison)	2·62	2·9
Glamorgan		
Ystalyfera (Wern House)	2·61	3·1
Rhondda W.W. (Llyn Fawr Res.) *n.g.*	*3·18*	*2·7*
Treorchy Pumping Station	*2·62*	*2·5*
Treherbert Park	*3·33*	*3·0*
Treherbert (Tyn-y-waun) *new g.*	*3·19*	*2·9*
Rhondda (Castell Nos Reservoir)	*2·73*	*2·5*
Rhondda (Lluest Wen Filters)	*3·40*	*3·2*
Rhondda (Lluest Wen Reservoir)	*3·50*	*2·9*
Carmarthen		
Llyn-y-fan Fach (Nant Coch)	3·79	3·9
Llyn-y-fan Fach (Troed-y-Foel)	3·81	4·0
Brecon		
Cardiff W.W. (Storey Arms Field)	*2·57*	*2·7*
Trecastle (Blaenau-hydfer)	3·74	4·1
Ayr		
Afton Reservoir (Filters) *new g.*	2·65	2·9

December 5th

Argyll		
Duror (Achadh Nan Sqiath)	2·55	3·3
Glenleven (Kinlochleven)	2·90	2·4
Ardrishaig (Stronachullin)	2·85	3·1
Mull (Gruline)	2·97	3·2
Down		
Mourne Mountains (Fofanny Res.)	*3·02*	*3·3*

December 11th

Cumberland		
Watendlath Farm	2·75	2·7

December 13th

Brecon	*in.*	or %
Cardiff W.W. (Garw-nant)	*2·50*	*2·8*

December 28th

Argyll		
Glenleven (Blackwater Dam South)	2·53	2·0
Inverness		
Loch Quoich (Kinlochquoich)	3·00	2·1

December 30th

Leicestershire	*in.*	or %
Asfordby Hill (Ironworks)	1·90	7·8
Prestwold Hall Gardens	2·18	7·6
Lincolnshire		
Boston (Amber Hill)	1·90	7·8
Revesby Reservoir	1·85	7·6
Nottinghamshire		
Bilsthorpe (Rufford Pumping Stn.) .	1·84	7·6
Ollerton (Boughton Waterworks) ..	1·75	7·6
Retford (Sir Frederick Milner School)	1·80	8·4

8 Monthly Rainfall in 1948

INFORMATION as to the rainfall of the months of 1948 over Great Britain and Northern Ireland is set out in this section in various forms:

(1) Table 8A gives general values of the monthly and annual rainfall over the constituent areas separately. Similar values for previous years have been given in each volume since 1906 except in the case of Northern Ireland which was included in the volume for 1940-1942 for the first time.

(2) Details are given of some of the largest and smallest monthly totals of rainfall reported during 1948.

(3) In Table 8C the monthly and annual totals of rainfall are set out for 335 stations, distributed as evenly as possible over the country.

(4) Table 8D gives the monthly and annual falls expressed as percentages of the averages for 1881 to 1915. It is confined to 123 stations for which averages are available. The monthly totals, in inches, for stations in 8D are given in Table 8C. At the end of Table 8D general monthly percentage values are given for England, Wales, England and Wales, Scotland and Northern Ireland.

Table 8A General Rainfall for 1948, computed from the average, 1881-1915, by applying the general percentage values given in Tables 8D and 10B to the General Average Values.

Months	England	Wales	Isle of Man	England and Wales	Scotland	Northern Ireland
	in.	in.	in.	in.	in.	in.
January	6·3	11·2	10·9	7·0	8·0	6·5
February	1·7	3·2	2·9	1·9	4·7	2·4
March	1·2	2·8	3·0	1·4	3·6	2·8
April	1·9	2·7	2·3	2·0	3·4	2·3
May	2·6	3·0	2·6	2·7	2·4	2·2
June	3·4	5·5	5·8	3·6	5·1	4·0
July	1·6	3·0	2·5	1·8	3·9	3·3
August	4·2	6·0	5·7	4·5	7·3	4·0
September	2·6	4·9	5·4	2·9	6·2	4·4
October	2·8	4·7	4·1	3·0	6·4	3·6
November	2·0	3·9	3·8	2·3	4·3	3·1
December	3·9	8·1	4·9	4·4	6·7	6·1
Year	34·2	59·0	53·9	37·5	62·0	44·7

Table 8B General Monthly and Annual Averages of Rainfall 1881-1915

Months	England	Wales	Isle of Man	England and Wales	Scotland	Northern Ireland
	in.	in.	in.	in.	in.	in.
January	2·69	4·72	3·40	2·99	4·90	3·33
February	2·34	3·94	3·25	2·57	4·18	2·98
March	2·47	3·82	3·03	2·67	4·05	3·05
April	1·98	2·96	2·47	2·12	2·99	2·58
May	2·19	2·95	2·82	2·30	3·01	2·70
June	2·33	3·05	2·54	2·44	2·83	2·86
July	2·75	3·60	3·22	2·87	3·78	3·41
August	3·11	4·71	4·01	3·35	4·51	4·16
September	2·37	3·51	3·22	2·54	4·00	3·01
October	3·69	5·63	4·64	3·97	4·90	3·61
November	3·19	5·25	4·73	3·49	5·29	3·81
December	3·56	6·00	4·97	3·92	5·88	4·16
Year	32·67	50·14	42·30	35·23	50·32	39·66

(5) A set of twelve maps showing cartographically the distribution of the percentage monthly values given in Table 8D is reproduced in this article. The corresponding percentage map for the whole year appears as a frontispiece to the volume.

A set of twelve maps showing the distribution of the actual rainfall in each month, has been prepared on the scale of 16 miles to the inch, based on the values from some 2,000 stations. Owing to the necessity for economy in printing, these maps have not been reproduced in this article.

In Table 8B the average values, taken from the Book of Normals, Table 21A (M.O.236, Section V) are given for comparison with the values for 1948 given in Table 8A. The values for Northern Ireland have been evaluated more recently in the same manner as was adopted previously for the other areas.

General Monthly Rainfall

The general monthly values shown in Table 8A have been computed by applying the percentage values given at the end of Table 8D to the average general values for the period 1881–1915. These computed values in inches have been subsequently slightly adjusted in order that the totals for the year should agree with the totals given in Table 10A, which are based on a more exact determination as explained in the text accompanying that table.

January was the wettest month of 1948 in all districts. Over England and Wales as a whole the general rainfall was 7·0 inches and it was the wettest January in the last 80 years. In Scotland, where the general fall was 8·0 inches, six Januaries have been about as wet or wetter, viz. 1872, 1877, 1884, 1903, 1921 and 1928.

March was the driest month of the year over England and Wales. In Scotland and Northern Ireland, however, both April and May had rather less rain than March.

Extremes of Monthly Rainfall at Individual Stations

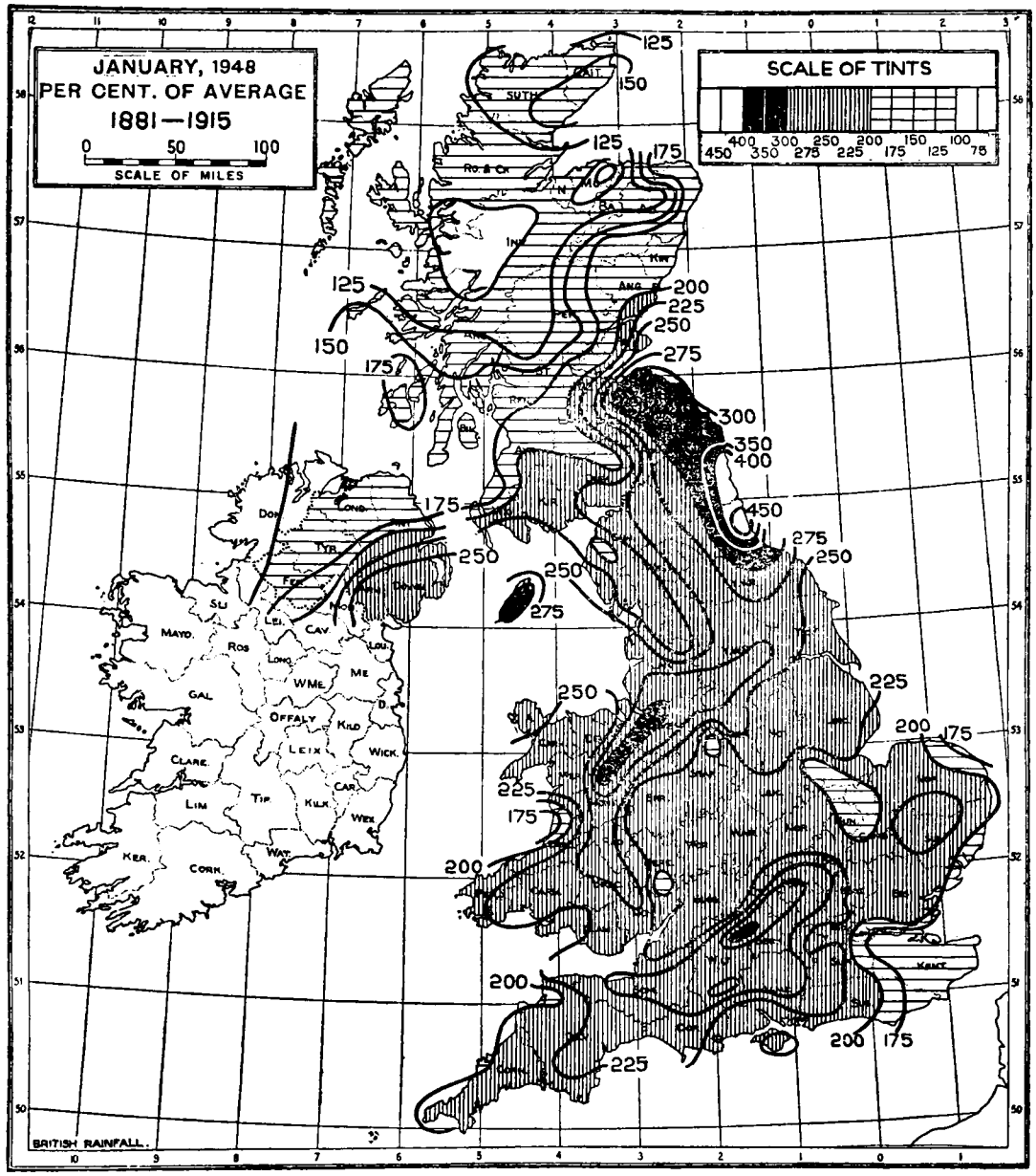
(a) *Monthly Totals:*—The largest monthly total recorded in England was 26·25 inches at Sprinkling Tarn at the head of Borrowdale in Cumberland during September, but almost as much, 26·0 inches, was recorded at the nearby station, Stye Head, in January. In Wales the gauge at Grib Goch on Snowdon provided the largest monthly total, viz. 33·2 inches, also in January. Scotland's largest total was 23·63 inches at Loch Sloy (Sloy Dam) in October, while in Northern Ireland the largest amount was 15·05 inches in January at Slieve Lamagan in the Mourne Mountains.

Totals of rainfall in March were under ·50 inch at many stations in the North Midlands, and also in south-east Scotland and locally in Sussex. The smallest total recorded in England was ·23 inch at Newark (The Friary) and at Newark Sewage Works ; in Wales the smallest was ·50 inch at Mostyn, Flintshire, and in Scotland ·31 inch at East Fortune Sanatorium in East Lothian. There were no remarkably small totals in Northern Ireland, the lowest being 1·27 inch at Toomebridge, County Antrim.

(b) *Monthly percentage values:*—Areas with more than twice the average are shown on the maps for seven months of the year, with three times the average on those for January, June and August, and with more than four times in January. Among the largest percentages values were 452 at Durham in January, 314 at Balmoral in June and 364 at Berwick-on-Tweed in August. On the other hand the percentage was only 19 at Morpeth in March and 22 at Balmoral in November.

The Rainfall and Weather of the Individual Months

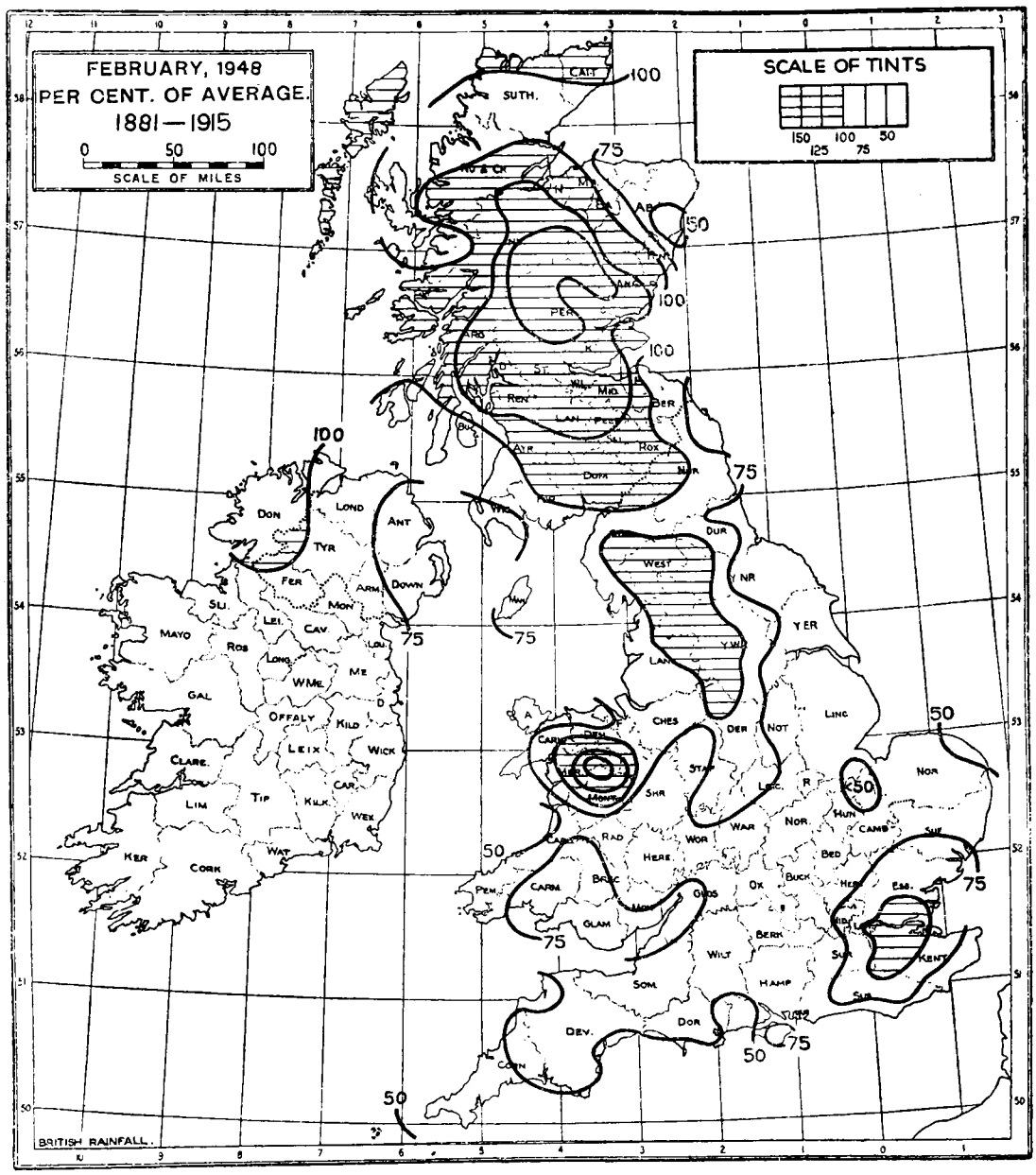
In the following pages maps are given showing the distribution of the rainfall each month expressed as percentages of average together with a short account of the weather. Further details are given in the *Monthly Weather Report*, which also includes maps of the distribution of rainfall amounts and of mean pressure and the movements of the centres of the main depressions.



Rainfall, January 1948, as per cent. of average

January. Mean pressure was exceptionally low, the deviation from average ranging from −13·0 mb. at Lerwick to −18·4 mb. at Bidston and St. Ann's Head. At such widely separated stations as Oxford and Southport mean pressure was the lowest on record for any month. It was a very unsettled month and excessively wet, particularly in England and Wales, while strong winds and gales occurred frequently.

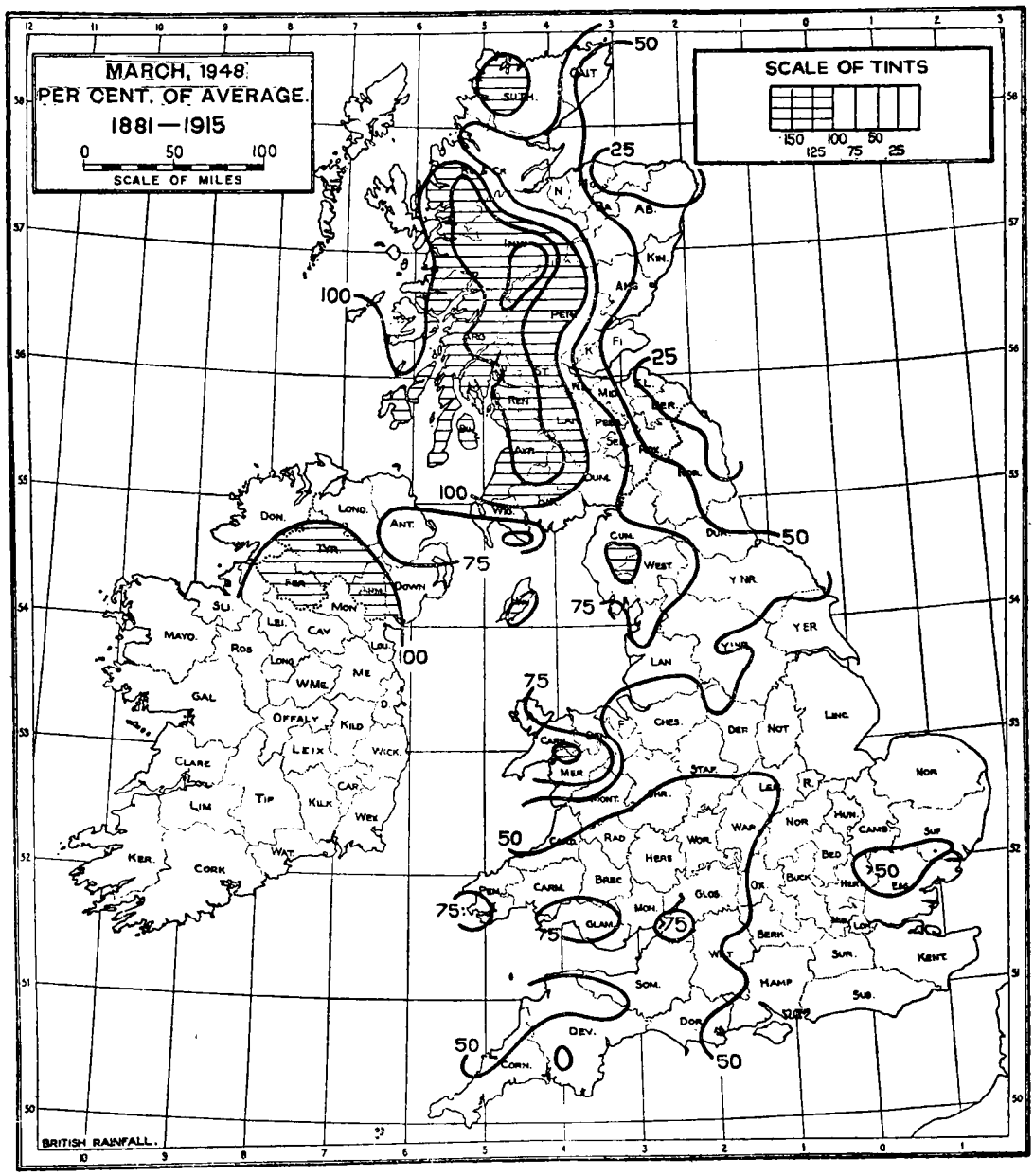
Over England and Wales as a whole it was the wettest January on record, that is since 1869, while in Scotland and Northern Ireland it was the wettest since 1928. The map shows several areas south of the Firth of Forth which had more than three times their normal rainfall. Newcastle-upon-Tyne had more than four times its average. At the wettest stations in the English Lake District totals for the month ranged from 20 to 25 inches ; they exceeded 30 inches on Snowdon.



Rainfall, February 1948, as per cent. of average

February. Mean pressure considerably exceeded the average, the excess being greatest in the north (9·3 mb. at Lerwick). The unsettled and stormy weather experienced in January continued through the first half of February. Subsequently cold, mainly anticyclonic conditions set in and persisted until near the end of the month. Snow was widespread on the 20th–22nd and falls were heaviest in south-east England. On the 22nd level snow was 14 inches deep at Biggin Hill, 11½ inches at Wilmington (Kent) and 10 inches at Croydon. It was more than 6 inches deep at Guernsey and 2 inches deep even at Scilly. Drifts 3 to 4 feet deep were reported at Hampstead.

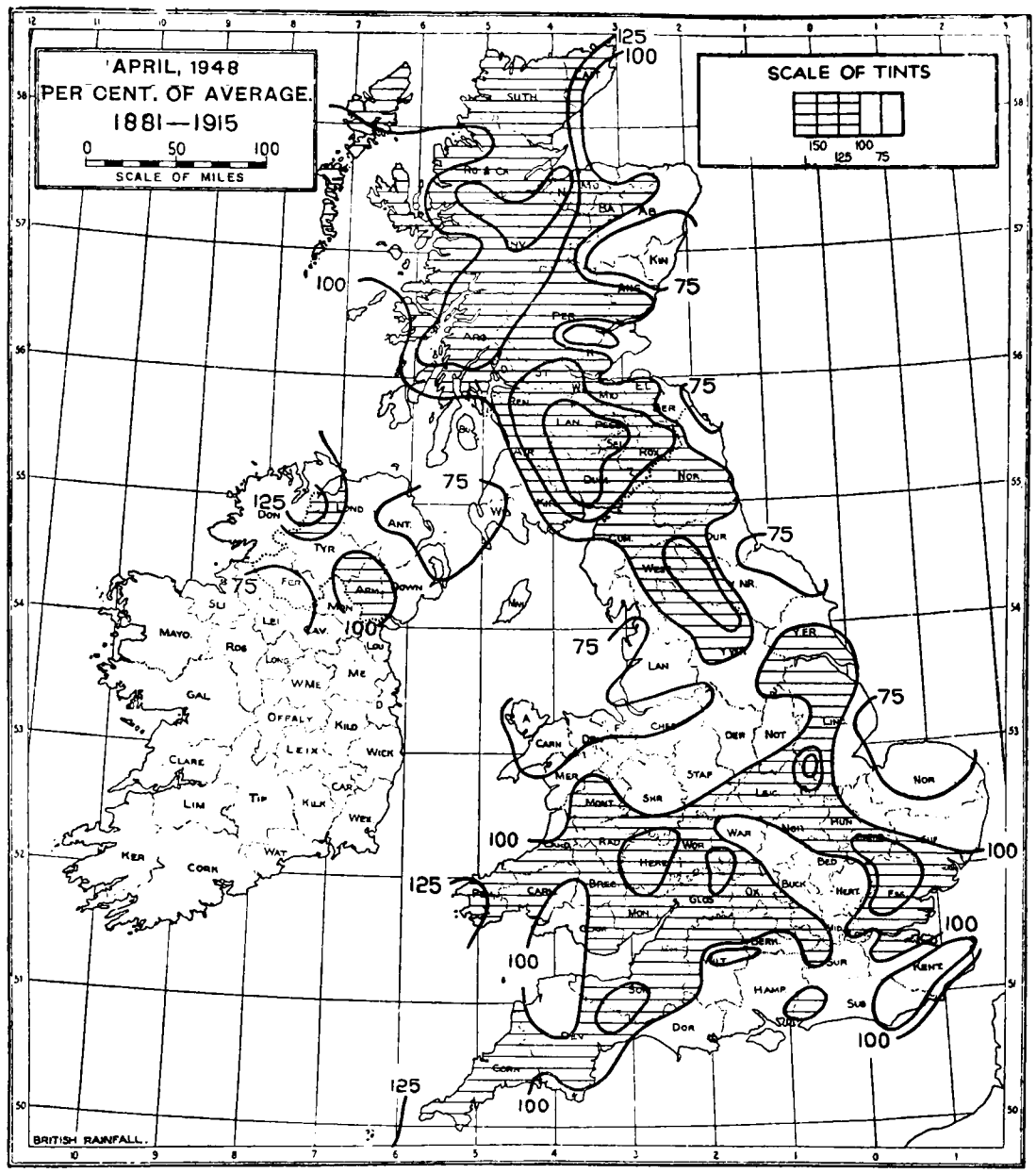
Rainfall was light over most of the country, but more than 150 per cent. of average fell locally in North Wales and in central Scotland. Less than an inch of rain was recorded over much of eastern England and the Midlands.



Rainfall, March 1948, as per cent. of average

March. Mean pressure substantially exceeded the average throughout the country. The period 1st–6th was exceptionally foggy for March, but thereafter sunshine was abundant and totals were well above average. The month was also distinguished by unusual warmth ; over England and Wales as a whole, apart from 1938, it was the warmest March of the century. The 9th was notably warm, the maximum at Kew, 71°F., being the highest shade temperature ever recorded there in March.

It was dry over most of Great Britain, and especially so in the east and south, but totals exceeded average over a large area in the west of Scotland, in Northern Ireland and locally in Cumberland and North Wales. The month's totals were under an inch at most places on the east coast between the Moray Firth and the English Channel and over much of the Midlands. Less than half an inch fell over most of Lincolnshire and the Fen district.

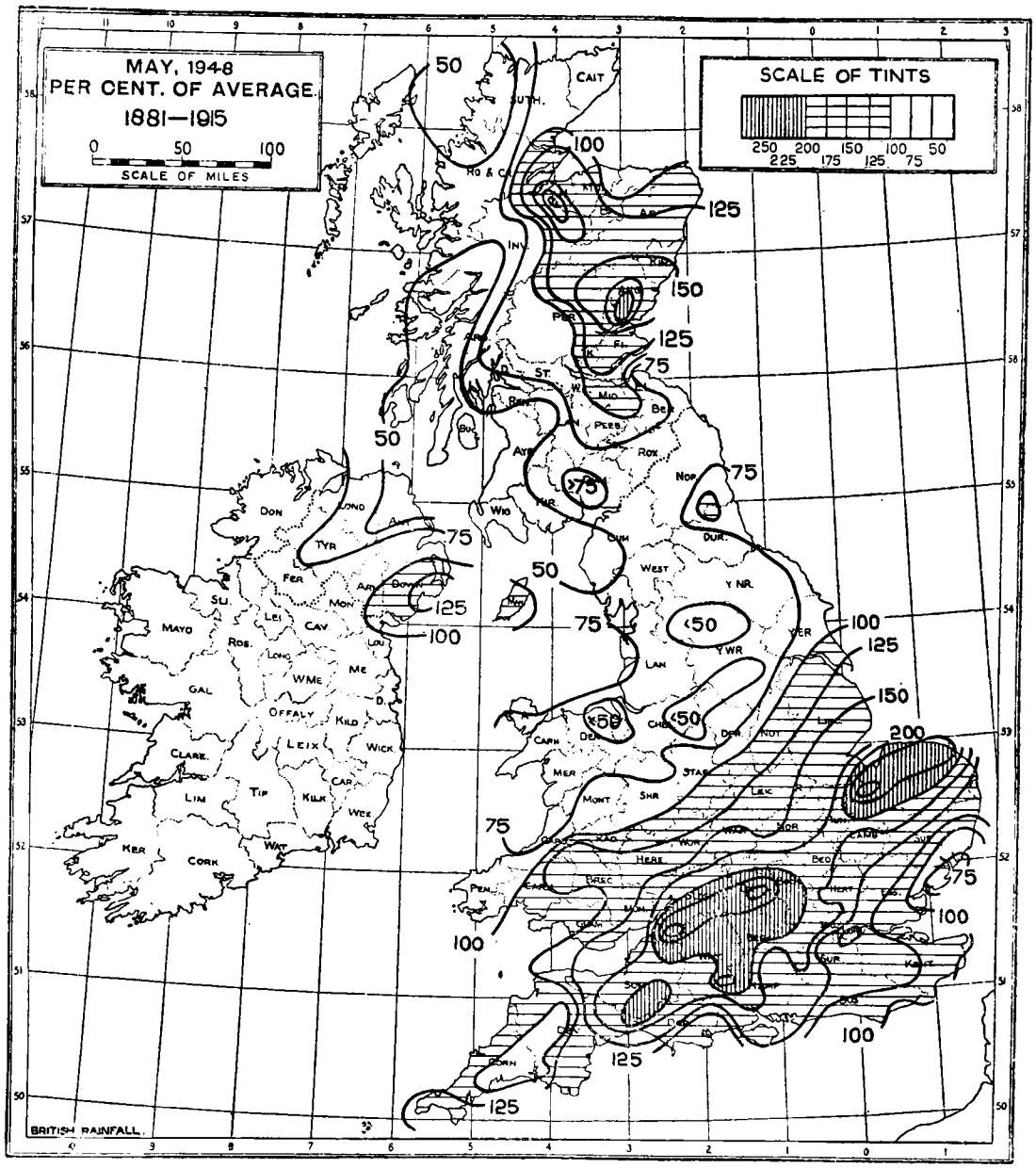


Rainfall, April 1948, as per cent. of average

April. The range of pressure was exceptional for the British Isles, varying from 953 mb. in the Hebrides on the 1st to 1043 mb. over Ireland on the 26th. It was a warm and sunny month on the whole but thunderstorms occurred fairly frequently during unsettled spells. Hampstead had its sunniest April since 1914 and Worthing its sunniest since 1921.

Over England and Wales it was the thirteenth successive month with mean temperature above average. So long a run of consecutive mild months has not occurred since comparable statistics became available, i.e., since 1901. The night of the 21st–22nd was exceptionally warm, the minimum temperature at Southport, 54°F., being the highest recorded in that locality in any April since 1874. Snow or sleet fell at times during the first eight and last three days. It lay 3 inches deep at Bellingham, Northumberland on the 30th.

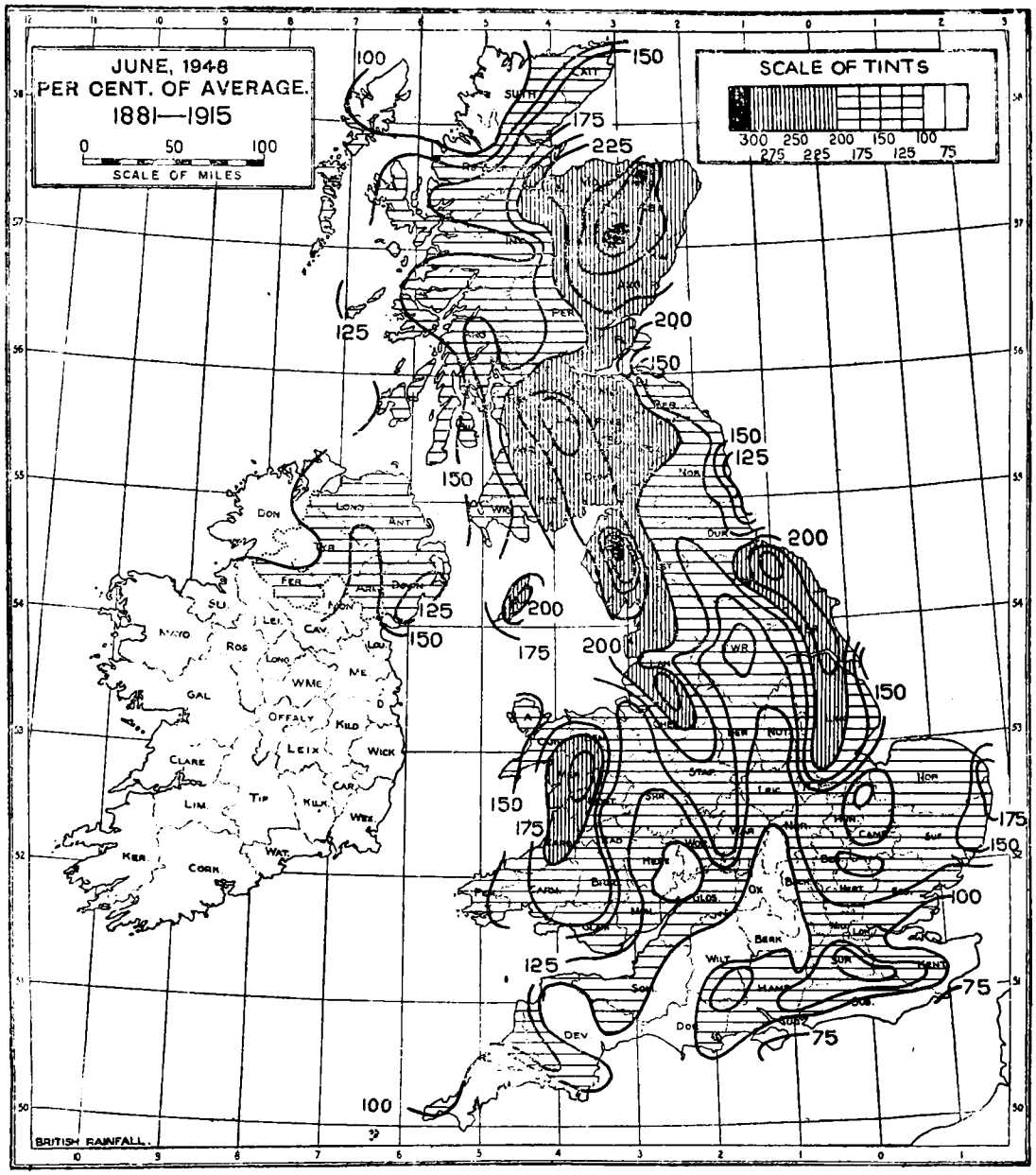
The general rainfall over Great Britain as a whole approximated to the average.



Rainfall, May 1948, as per cent. of average

May. Mean pressure was about average in the south of England and somewhat exceeded the average elsewhere. The weather was cool and unsettled at the beginning of the month and in the last week but the intervening period was fine and mainly warm. Thunderstorms were frequent in the unsettled periods. After a hail storm at White Waltham (Berkshire) on the 1st there were 6 inches of hail on parts of the airfield. A noteable feature was the large total of bright sunshine, several places having their sunniest May on record. In the week 14th–20th, which included Whitsun, there were 90 hours of sunshine at Kew and 104 hours at Prestwick.

Rainfall varied considerably. There was more than double the average over much of a belt extending from Norfolk across the Cotswolds to Dorset and also locally in Angus and at Inverness. On the other hand many places in the west had less than half the average fall.

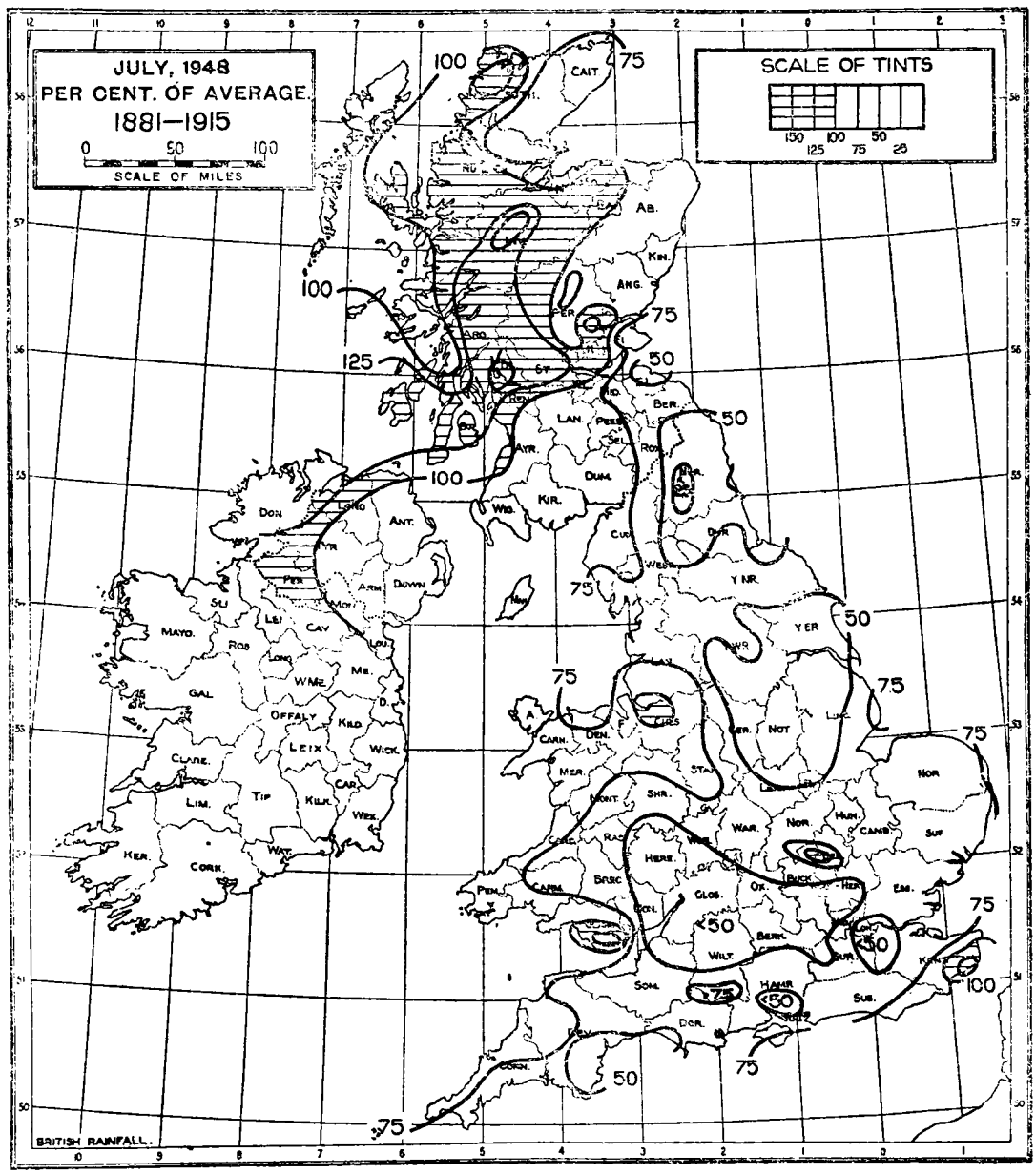


Rainfall, June 1948, as per cent. of average

June. Mean pressure was below the average generally. The weather was unsettled and wet during much of the month and there were several widespread gales and frequent thunderstorms. A man was killed by lightning at London Airport, Heathrow, on the 10th. It was rather cool on the whole but the 8th, 12th–14th and 26th were pleasantly warm days.

The paucity of bright sunshine was noteworthy, many observers reporting the dullest June on record.

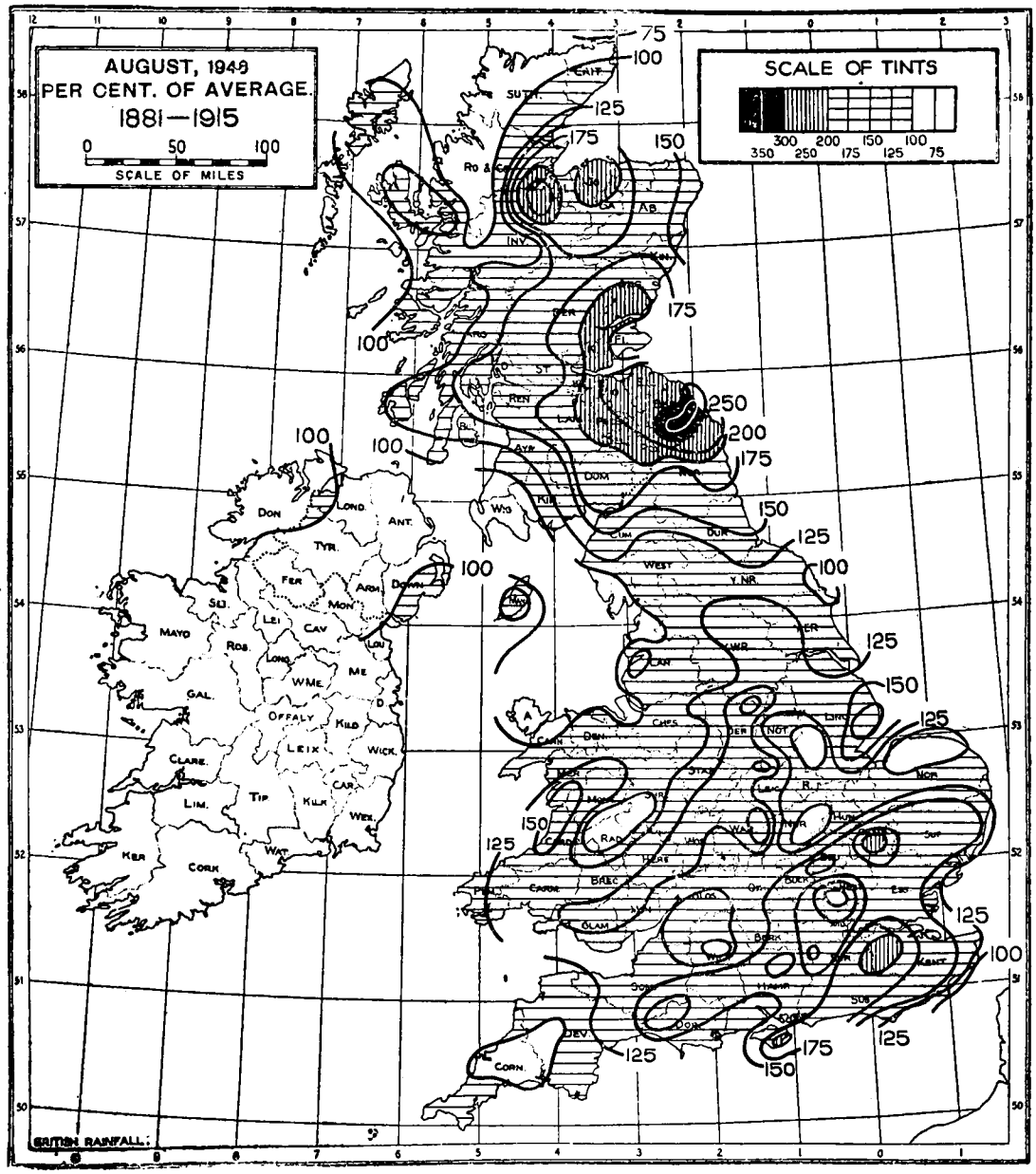
The rainfall, besides being heavy, was remarkable for its persistency, the number of rain-days being generally well above average (see also Section 2). The map shows that much of the country received more than double the average rainfall. Keswick, Balmoral and Banff registered more than three times their respective averages. Rainfall totals for the month amounted to as much as 19 inches on Snowdon and at the wettest stations in the English Lake District.



Rainfall, July 1948, as per cent. of average

July. Mean pressure was slightly above average in most places. The weather was remarkable for an unusually cool spell until the 17th and an exceptionally warm period in the last week. The 28th and 29th were the hottest days of the year, shade temperatures exceeding 90°F. widely. Severe thunderstorms in the last four days caused flooding and damage to property in places (see Section 6). It was dull to the 18th but thereafter conditions improved and sunshine totals approximated to average in most districts.

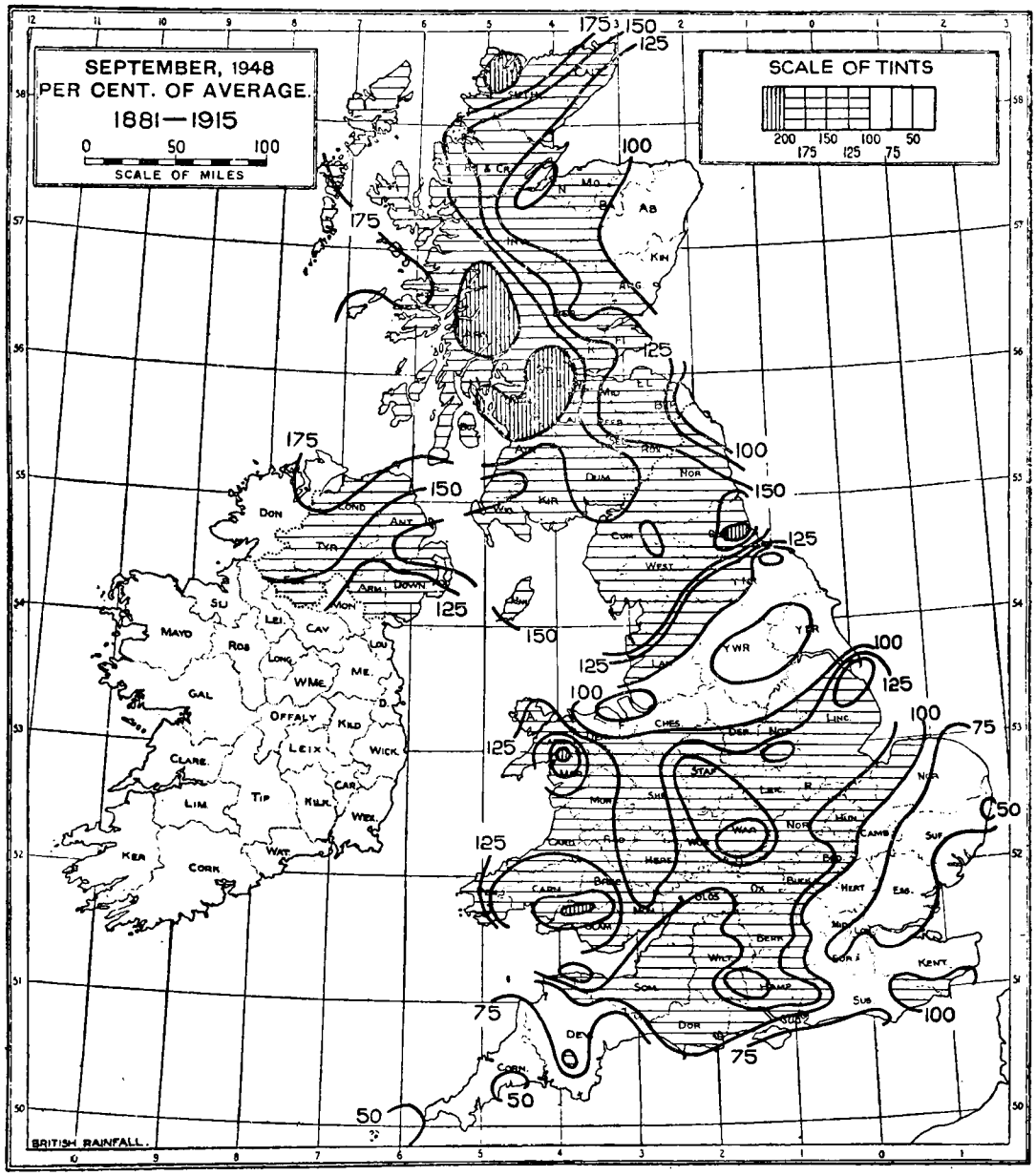
Over England and Wales as a whole it was a dry July but rainfall totals exceeded the average in a few widely separated areas as a result of heavy local rains on individual days. Central and western Scotland had rather more rain than usual, as also did part of Northern Ireland. The month's totals were less than an inch over most of the Thames Valley and in scattered areas between the south coast and the Yorkshire moors.



Rainfall, August 1948, as per cent. of average

August. Mean pressure was slightly below average except in the Shetlands. It was a cool, dull and wet month with some exceptionally heavy rainstorms which resulted in disastrous floods. The rains of the 11th–12th in south-east Scotland were phenomenal and caused damage which in Berwickshire alone was estimated to exceed £1,000,000 in value (see also Section 7). An almost general and substantial lack of sunshine was another feature of the weather. Southport and Wakefield had their dullest August on record.

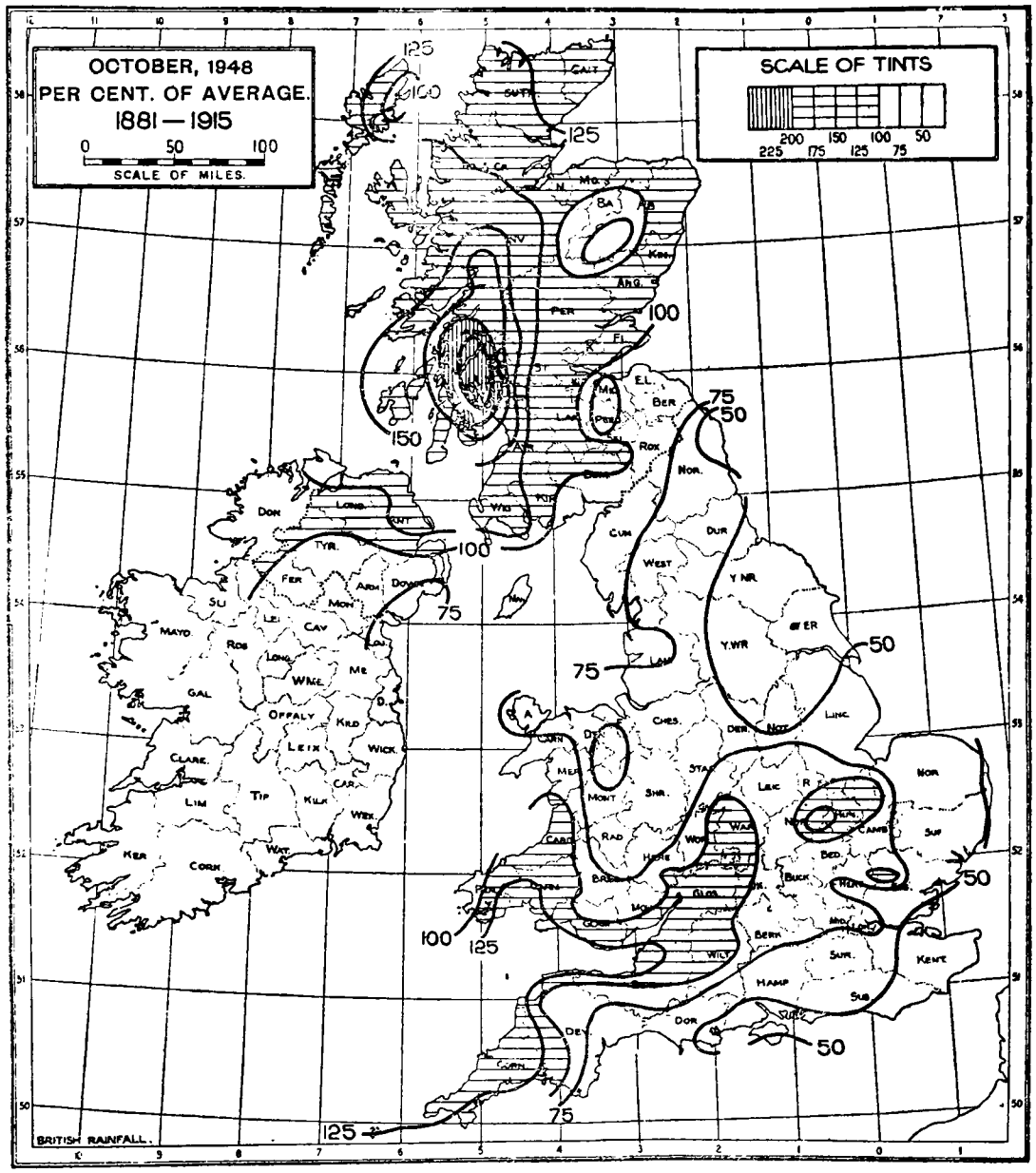
The map shows that rainfall was above average nearly everywhere. Scotland as a whole had its wettest August since 1930. More than twice the average fell in the Moray Firth district and the south-eastern counties and three and a half times the average in the lower Tweed Valley (Kelso 355, Berwick-on-Tweed 364 per cent.). Edinburgh with 9.40 inches of rain recorded its wettest month for 163 years, i.e. since September, 1785.



Rainfall, September 1948, as per cent. of average

September. Mean pressure was below average except in the extreme south of England, the deviation from average ranging from −6·9 mb. at Lerwick to +1·3 mb. at Plymouth. After a dull opening, anticyclonic conditions were established over southern England and mainly fair weather was enjoyed there apart from a break on the 27th–28th. Depressions passing between Scotland and Iceland, however, brought almost continuous unsettled, wet weather to west Scotland and Northern Ireland. Rain fell every day at some places in the north-west while there were less than 10 rain-days in the south of England (see Section 2).

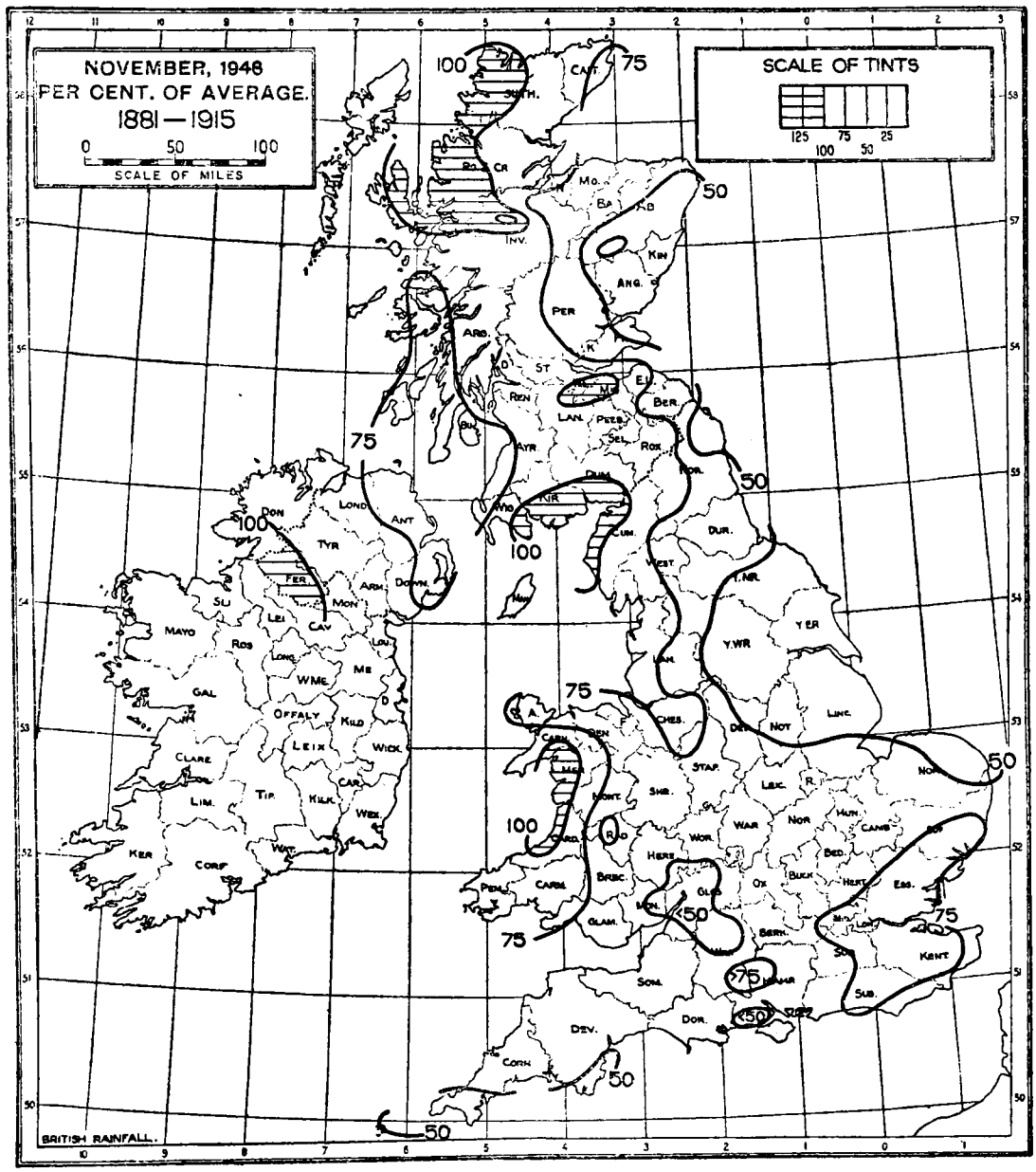
Sunshine records were poor in the west—Southport had its dullest September on record (after its dullest August)—but in east Scotland and at many places in the south of England totals exceeded the average. More than double the normal rainfall was recorded over much of west Scotland. Glenquoich, with 15·65 inches, had its wettest September for 30 years and Fort William (13·78) its wettest for 56 years.



Rainfall, October 1948, as per cent. of average

October. Mean pressure was higher than usual, except in Shetland ; the deviation from average at 9h. ranged from −1·5 mb. at Lerwick to +4·8 mb. at Portland Bill. Mild weather prevailed until the 25th but the last six days were generally cold. Gales on the 22nd and 26th were severe in the extreme north. Winds gusted up to 81 miles per hour at Lerwick on the 22nd and hurricane force was reached at Wick on the 26th. There were intense and widespread frosts on the 27th and 28th. Sunshine records were good in Scotland and Northern Ireland, but over England and Wales on the whole totals were rather less than the average.

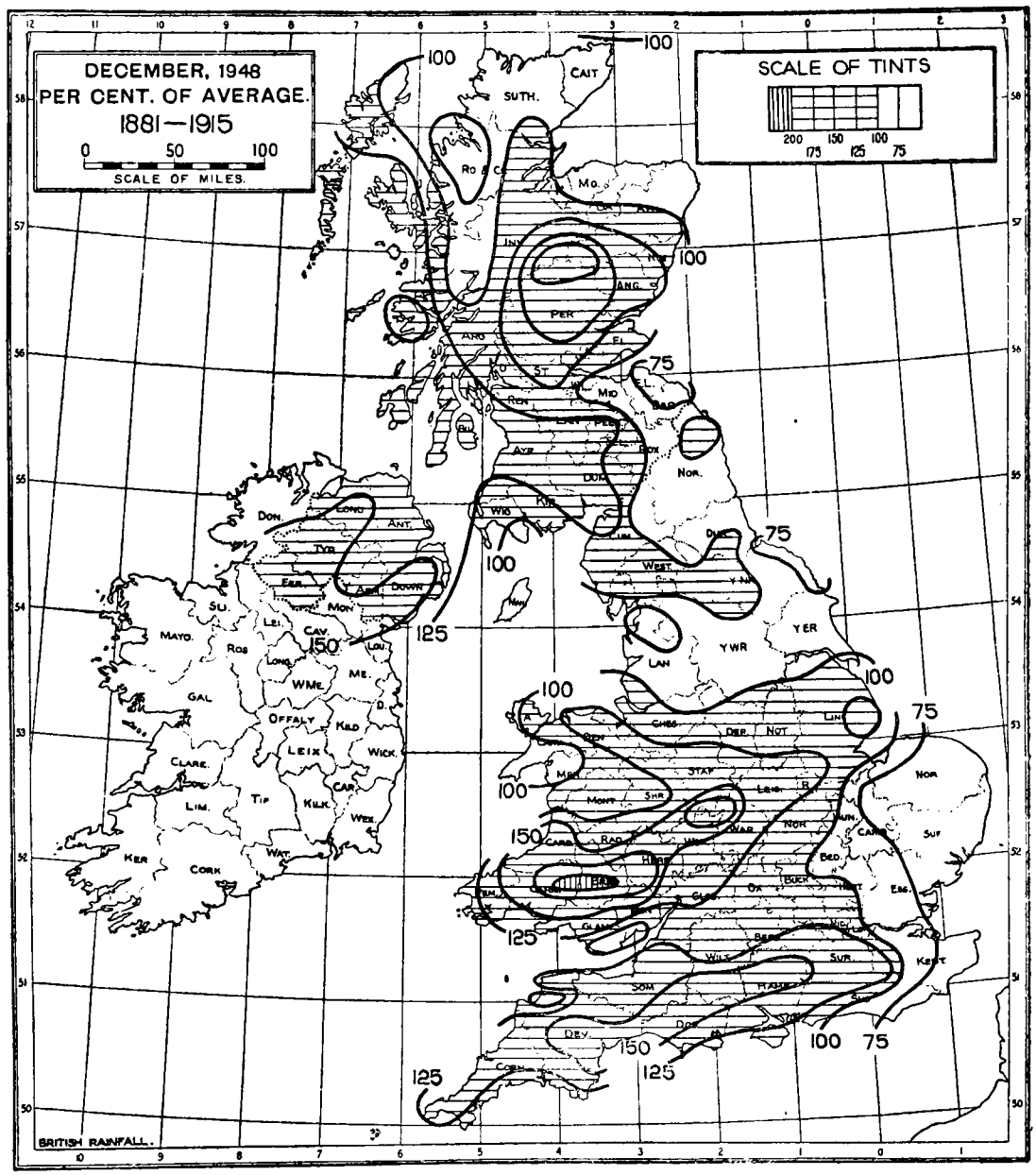
Rainfall was below average over most of England and Wales, but in Scotland it was a wet month. More than twice the average was recorded over much of Argyll. In Northern Ireland the percentages of average ranged from 74 at Seaforde to 128 at Ballymena.



Rainfall, November 1948, as per cent. of average

November. Mean pressure was high everywhere, the excess over the average ranging from 4·7 mb. at Stornoway to 9·4 mb. at Gorleston. It was a mild month, especially in western districts, and a dry one. A notable feature was the widespread fog which persisted from the 22nd onwards. In the period 27th–30th the fog was particularly thick and caused much dislocation of transport. The world's three largest ships were all held up at Southampton at that time. Paradoxically, it was, on the whole, a sunnier November than usual though the totals of sunshine varied appreciably owing to the incidence of the fog.

The accompanying map shows that large areas in the east of the country and smaller areas in the west Midlands and along the south coast received less than half their average rainfall. A little more than the average was recorded at some places in the west of Britain and in County Fermanagh.



Rainfall, December 1948, as per cent. of average

December. Mean pressure was generally above average ; the excess was greatest in the east and amounted to about 7 mb. at Spurn Head and Gorleston. Unsettled and exceptionally mild weather prevailed in the first fortnight. Shade temperatures rose to 60°F. or above on the 2nd and 3rd. A reading of 65°F. at Achnashellach in the Western Highlands was the highest December temperature registered in Scotland since 1888. About the 15th anticyclonic conditions set in and the weather became cold and dry with easterly winds. Unsettled conditions returned about the 26th–27th which were particularly cold days. On the 30th considerable snow fell from Wales to the Humber. It lay 12 inches deep at Wirksworth, Derbyshire. Sunshine records were high for December. Ross-on-Wye and North Berwick had their sunniest December on record.

Rainfall was rather unevenly distributed. Broadly speaking, it tended to exceed average in the west and central districts and was a little below average elsewhere.

Table 8c Monthly Rainfall at 335 Stations in Great Britain and Northern Ireland in 1948

ENGLAND, WALES AND THE ISLANDS

County and River Division	Station	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
London 2	St. Pancras (Camden Square)	3·61	1·40	·57	1·68	2·77	2·11	1·06	3·02	1·34	1·96	1·76	2·20	23·48
Surrey 6	Godalming (Kingscote)	4·94	1·57	·88	1·87	2·53	2·63	·94	3·61	1·90	1·67	1·56	4·48	28·58
,, ...6	Byfleet (Wisley R.H.S. Gardens) ...	4·12	·99	·85	1·61	1·91	2·88	1·11	2·79	1·14	1·83	1·70	3·18	24·11
Kent 1	Folkestone (Cherry Garden)	3·87	1·25	·90	1·71	1·84	1·89	2·72	3·52	2·55	1·20	2·49	2·32	26·26
,, ...2	Lympne Airport	3·37	1·37	·68	1·15	1·90	1·92	2·22	3·65	2·13	·97	1·95	2·09	23·40
,, ... 2	Canterbury (Irrigation Works).....	3·17	·95	·92	1·52	1·65	2·58	1·29	3·02	1·72	1·34	1·91	2·34	22·41
,, ...4	Edenbridge (Falconhurst)	4·78	2·60	·99	1·42	2·75	3·42	1·13	5·23	2·08	1·89	1·95	4·47	32·71
,, ...4	Strood Waterworks	2·91	1·44	·74	1·40	1·72	2·65	·82	3·09	1·47	1·75	1·79	3·43	23·21
,, ...5	Bromley	2·76	1·65	·95	1·48	2·35	1·82	1·00	4·78	1·25	1·84	1·63	2·97	24·48
Sussex 1	Bognor Regis (Waterloo Square) ..	5·22	1·42	·70	1·01	1·96	2·09	·92	3·46	1·83	2·11	2·19	3·26	26·17
,, ...1	Compton (Compton House)	7·54	1·85	1·14	2·14	3·51	3·17	1·83	4·79	3·76	2·94	2·05	5·67	40·39
,, ...2	Horsham (Wimblehurst)	5·53	1·36	·94	2·08	2·77	3·00	1·30	4·00	2·09	2·22	1·77	4·58	31·64
,, ...3	Worthing (Beach House Park)	4·74	1·27	·86	1·28	1·70	1·42	1·18	3·99	1·63	1·80	2·47	2·89	25·23
,, ...5	Hailsham (Magham Down)	4·96	1·44	·82	·98	2·18	1·98	1·79	4·51	2·34	2·36	2·39	3·16	28·91
Hampshire 1	Ventnor (Royal National Hospital)	6·40	1·62	·67	1·33	2·54	1·27	1·61	3·99	1·54	2·20	2·37	3·86	29·40
,, ... 2	Bournemouth (Vale View)	4·53	·98	·79	1·53	2·01	2·36	1·18	3·44	2·50	1·95	1·61	5·16	28·04
,, ...4	Sway (Gordleton)	5·36	1·14	·82	1·52	2·74	2·81	1·43	3·62	3·53	2·35	1·88	4·74	31·94
,, ... 4	Stockbridge (Leckford Estate)	6·52	1·52	1·32	1·90	3·16	2·63	·96	4·17	3·09	2·19	1·82	4·15	33·43
,, ...5	Portsmouth (Southsea Common) ..	4·94	1·21	·67	1·41	2·57	1·73	·85	3·36	1·65	1·81	1·81	3·94	25·95
,, ...7	Selborne (The Wakes)	7·70	2·37	1·51	2·06	2·93	3·63	1·76	5·72	2·88	2·96	2·06	6·30	41·88
,, ...8	Sherborne St. John	6·04	1·25	1·08	1·58	2·93	2·20	1·32	4·27	2·20	2·58	1·73	4·63	31·81
Berkshire 4	Newbury (Greenham Common) ...	6·17	1·37	1·12	1·40	4·57	2·34	·86	3·81	2·72	2·82	1·82	5·40	34·40
,, ...5	Didcot (Sewage Works)	5·28	·73	·78	1·47	4·01	2·28	·80	3·09	2·31	2·51	1·29	3·56	28·11
Hertford 2	Harpenden (Rothamsted)	5·01	1·08	·90	1·38	3·04	2·92	·93	2·54	1·78	2·18	1·66	2·96	26·38
,, ...3	Royston (Therfield Rectory)	3·49	·84	·91	1·41	2·96	3·68	1·38	4·13	1·88	2·26	1·53	1·86	26·33
Buckingham 2	Princes Risborough (Research Lab.)	5·89	·79	1·02	1·81	3·47	2·62	1·22	2·72	2·29	3·04	1·50	3·26	29·63
,, ..3	Slough (Upton)	4·09	1·06	·83	1·64	2·95	2·48	·93	2·76	1·73	2·26	1·85	3·17	25·75
,, ..3	Penn (Rayners)	5·99	1·18	·77	1·83	2·75	2·69	1·43	3·01	3·18	2·67	1·99	3·97	31·46
,, ..5	Oving House	4·49	·90	·64	1·36	4·24	2·32	1·41	2·32	2·40	2·42	1·62	2·65	26·77
Oxford 3	Oxford (Radcliffe Met. Station)....	5·01	·88	·72	1·67	4·96	2·11	·85	3·43	2·48	2·33	1·50	2·70	28·64
,, ...3	West Adderbury (St. Amands)	4·66	·78	·94	1·63	4·76	2·41	·83	4·68	2·83	3·38	·98	4·05	31·93
Northampton.....4	Daventry (Tunnel End)	4·66	1·09	·78	1·18	3·81	1·74	1·60	3·69	3·25	2·88	1·40	2·19	28·27
,, 4	Wellingborough (Swanspool)	3·79	·91	·80	1·55	3·08	2·99	1·28	2·31	2·18	3·57	1·49	2·77	26·72
Huntingdon 1	St. Ives (Tenterleas)	3·61	·95	·53	1·65	4·30	2·26	1·49	3·07	2·36	2·35	1·50	1·55	25·62
,, .1	Whittlesea Mere	2·87	·54	·43	1·14	3·10	2·58	1·03	2·55	1·96	2·77	1·41	1·62	22·00
Bedford.....3	Woburn (Experimental Farm)	4·27	·91	·66	1·46	3·76	2·53	2·27	4·42	2·38	2·27	1·21	2·25	28·39
,, ...3	Sandy (Mogerhanger Park)	3·30	·69	·61	1·15	3·17	3·07	1·07	3·57	2·13	2·26	1·00	1·45	23·47
Cambridge 2	Cambridge (Botanic Gardens)	3·53	·71	·61	1·81	2·95	2·44	1·49	5·50	1·59	2·23	1·10	1·61	25·57

Table 8c Monthly Rainfall—ENGLAND, WALES AND THE ISLANDS (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Cambridge 2	Littleport (Highfield House)	3·12	·63	·59	1·09	3·66	2·05	1·61	3·56	1·47	2·42	1·16	1·48	22·84
,, ...2	March	3·10	·54	·55	1·07	4·49	1·92	1·63	2·55	1·97	3·15	1·25	1·55	23·77
Essex 1	Hatfield Broad Oak (Barrington) .	3·68	1·58	1·02	1·89	2·28	2·98	1·24	4·01	1·34	2·75	1·88	2·21	26·86
,, ...2	North Weald (Canes)	3·75	1·45	·81	1·72	2·37	2·12	·98	3·69	1·78	2·22	2·06	2·38	25·33
,, ...3	Shoeburyness	2·71	1·34	·46	1·38	1·35	1·64	·98	2·89	·98	1·04	1·67	1·72	18·16
,, ...4	Bradwell-on-Sea (Bellropes)	2·39	1·20	·88	1·59	2·07	1·52	1·18	3·55	1·54	1·87	1·72	2·19	21·70
,, ...4	Maldon	2·76	1·22	·74	1·69	1·53	1·69	·96	2·90	1·26	1·61	1·92	1·69	19·97
,, ...5	Earls Colne (Grammar School)	3·77	1·39	1·04	1·66	1·98	2·47	1·53	5·53	1·17	1·70	1·56	1·65	25·45
Suffolk 2	Ipswich (Belstead Hall)	3·78	1·28	·94	1·21	1·19	2·47	1·24	2·65	1·46	1·90	1·70	1·41	21·23
,, ...3	Campsea Ashe (High House)	3·41	·83	·82	1·33	1·37	3·15	1·35	3·18	1·79	1·71	1·91	1·18	22·03
,, ...4	Lowestoft (Secondary School) .. .	3·69	·71	·48	1·19	2·32	3·40	1·63	2·90	·90	1·20	1·48	1·56	21·46
,, ...5	Bury St. Edmunds (Westley Hall) ..	4·29	1·04	·76	1·49	3·44	2·66	1·64	4·10	1·47	1·37	1·47	1·75	25·48
Norfolk.....1	Wymondham	4·00	1·39	·71	1·26	2·97	2·25	1·79	2·92	1·66	1·75	1·14	1·48	23·32
,, ...1	Cawston (New Street)	3·98	·83	·73	1·11	2·59	2·65	2·09	2·51	1·85	3·34	1·16	1·55	24·39
,, ...2	Sprowston (Church Farm)	3·43	·88	·69	·77	2·93	2·11	1·90	3·11	1·40	1·59	·96	1·09	20·86
,, ...3	Sandringham House Gardens	4·06	1·09	·76	·81	4·22	3·11	1·85	2·60	2·31	2·18	1·38	2·05	26·42
,, ...3	Cromer (Howards Hill)	2·94	·56	·49	·76	3·96	1·98	1·22	2·34	1·36	2·60	·72	1·47	20·40
,, ...3	Hunstanton	4·35	·79	·45	·92	3·70	2·69	1·40	2·65	1·97	2·36	1·22	1·61	24·11
,, ...4	Thetford Waterworks	4·29	1·05	·60	1·36	3·51	2·27	1·96	3·26	1·66	1·80	1·59	1·36	24·71
Wiltshire 3	Fonthill House Gardens	8·43	2·17	1·39	1·97	5·05	3·86	1·68	4·85	3·73	3·35	2·20	6·81	45·49
,, ...3	Larkhill (School of Artillery)	6·00	1·02	1·34	1·41	4·10	2·69	·98	3·66	2·63	2·71	1·65	5·12	33·31
,, ...3	Porton (W.D. Experimental Station)	6·36	1·35	1·36	1·51	3·97	2·51	1·63	3·49	2·84	2·14	2·30	5·51	34·97
,, ...3	Bishops Cannings	5·95	1·25	1·11	1·45	3·92	2·31	·77	2·93	2·32	4·41	1·38	3·88	31·68
Dorset.....3	Creech Grange	6·85	1·68	1·21	1·70	2·26	2·76	1·72	3·90	3·18	2·42	2·56	4·61	34·85
,, ...3	Beaminster (East Street)	7·87	1·68	1·52	2·18	4·57	1·83	1·29	5·53	3·19	3·29	2·34	7·41	42·70
,, ...4	Blandford (Bryanston Gardens) ..	7·46	1·21	1·51	2·26	3·16	2·60	1·38	4·21	3·13	2·61	2·42	7·69	39·64
South Devon 2	Plymouth (The Hoe)	7·38	1·68	1·90	1·74	1·94	2·07	1·53	3·56	1·56	4·94	2·35	5·88	36·53
,, ...2	Mary-Tavy (Blackdown)	11·92	3·12	3·21	3·33	3·30	4·40	3·37	5·72	4·26	5·79	3·50	10·95	62·87
,, ...4	Ashburton (West Street)	11·92	2·77	2·90	3·10	3·93	2·94	1·30	4·97	2·77	4·31	2·97	10·78	54·66
,, ...5	Teignmouth (Den Gardens)	6·59	1·30	1·39	2·17	2·35	1·67	·70	2·72	1·22	2·49	1·76	6·76	31·12
,, ...6	Crediton (Okefield)	6·47	1·59	1·04	2·40	2·09	1·89	1·49	2·98	1·40	4·23	2·23	4·82	32·63
,, ...6	Cullompton	7·86	2·07	1·21	3·23	4·01	2·61	1·71	3·92	1·58	3·02	2·29	5·92	39·43
,, ...7	Sidmouth (U.D.C.)	5·34	1·06	1·06	1·45	2·22	1·56	1·17	3·26	1·08	2·67	2·06	4·97	27·90
North Devon 2	Barnstaple (N. Devon Athenaeum)	5·90	1·17	1·08	2·00	2·15	1·88	2·00	4·05	2·21	4·28	2·23	4·38	33·33
,, ...3	Okehampton (Uplands)	10·86	2·67	2·72	3·07	2·64	2·57	2·52	3·90	2·44	5·35	3·24	10·80	52·78
,, ...3	Torrington (Hillside)	5·92	1·59	1·04	1·85	2·40	2·16	1·62	3·56	2·29	4·52	1·85	4·24	33·04
Cornwall 1	Newquay (Mount Wise)	5·54	·88	1·04	2·25	1·78	1·61	1·74	2·52	1·36	5·46	2·32	5·53	32·03
,, ...1	Bodmin (Castle Hill House)	10·17	1·84	2·50	2·74	2·87	2·56	2·48	3·80	2·61	6·81	3·20	8·83	50·41

Table 8c Monthly Rainfall—ENGLAND, WALES AND THE ISLANDS (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Cornwall 1	Bude (School House)	6·44	1·34	1·04	1·95	2·24	2·71	2·06	3·16	1·80	5·24	2·25	5·74	35·97
,, ... 2	Penzance (Morrab Gardens)	7·96	1·52	1·71	2·87	3·00	2·37	2·10	3·96	1·86	5·99	2·11	7·38	42·83
,, ... 2	Falmouth Observatory.....	9·15	1·81	1·93	2·78	1·98	2·22	1·59	3·86	1·87	5·43	2·37	7·53	42·52
,, ... 2	St. Austell (Trevarna)..	9·54	1·68	1·96	2·83	2·26	2·40	2·27	3·65	2·45	7·93	3·55	7·27	47·79
,, ... 4	Tresco Abbey	5·96	1·65	1·63	2·62	1·84	1·70	1·47	3·11	·90	4·57	1·76	5·72	32·93
Somerset 1	Chewton Mendip (The Priory)	9·05	3·02	2·21	1·67	4·73	2·34	2·17	3·81	3·07	4·98	2·45	6·32	45·82
,, ... 1	Bath (Henrietta Park)	5·97	1·30	1·15	2·15	4·28	2·06	·81	3·22	2·14	3·44	1·46	4·36	32·34
,, ... 2	Street (Millfield)	4·88	1·23	·98	1·67	3·96	1·86	1·78	4·24	1·38	3·16	1·77	4·41	31·32
,, ... 2	Burnham (Dunstan House)	5·09	·97	·97	1·68	2·88	1·79	1·75	4·30	1·32	3·68	2·48	4·09	31·00
,, ... 3	Trull (Wayside)	6·71	1·62	1·36	2·46	3·44	1·63	1·17	3·57	1·74	3·31	2·05	5·86	34·92
,, ... 5	Brushford Nurseries	10·98	2·88	2·32	3·13	3·34	2·37	2·46	5·39	2·45	5·41	2·85	6·73	50·31
Gloucester 3	Cheltenham (Montpellier Gardens)	4·45	1·59	1·32	1·69	3·56	1·55	·99	3·37	2·61	2·84	1·11	3·93	29·01
,, ... 4	Blockley	6·53	1·01	1·41	2·45	3·49	2·74	1·17	3·39	3·11	3·08	1·10	3·68	33·16
,, ... 7	Lechlade (Claydon House)	4·33	·96	·87	2·11	4·04	1·84	1·05	3·76	2·08	3·11	1·52	3·56	29·23
,, ... 7	Cirencester (Somerford Road)	5·09	1·49	1·32	2·30	4·70	2·68	·91	3·56	2·54	3·49	1·75	4·44	34·27
Hereford..... 1	Ross-on-Wye	4·37	·88	1·38	2·57	3·66	1·69	·70	3·44	2·51	3·14	1·83	4·65	30·82
,, ... 1	Vowchurch (Ladywell House).....	6·82	1·78	1·55	3·12	3·37	2·62	·79	4·40	2·42	2·18	1·92	7·14	38·11
,, ... 1	Presteigne (Middlemoor)	7·76	2·21	1·92	2·12	3·33	3·05	1·33	2·88	2·66	2·61	2·18	6·52	38·57
Shropshire 3	Bromfield (Oakly Park)	5·71	1·86	1·29	1·70	2·82	2·52	1·17	3·49	2·75	2·54	1·79	5·76	33·40
,, ... 3	Church Stretton (Sewage Works)...	5·76	1·71	1·49	1·93	2·13	3·08	1·41	3·07	2·58	2·17	1·87	3·84	31·04
,, ... 4	Shifnal (Hatton Grange)	4·34	1·38	·98	1·96	1·60	2·75	1·67	4·80	2·23	2·65	1·33	4·31	30·00
,, ... 4	Cheswardine Hall	5·44	1·20	·96	1·56	1·70	4·11	2·14	3·90	3·24	1·93	2·12	3·67	31·97
,, ... 4	Oswestry (Mount Reservoir)	8·40	2·56	1·43	1·50	1·89	4·47	2·74	4·12	1·85	1·82	2·22	4·66	37·66
Stafford..... 3	Lichfield (Hanch Reservoir)	4·84	1·28	1·09	2·40	1·79	3·56	2·16	5·24	2·35	2·34	1·38	3·79	32·22
,, ... 3	Stafford (Victoria Pleasure Ground)	4·78	1·42	1·17	1·94	1·55	3·75	1·64	3·81	2·35	2·21	1·64	4·26	30·52
,, ... 4	Longton (The Meir)	6·45	1·62	1·09	2·49	1·92	4·47	2·27	5·45	3·21	2·39	2·13	3·63	37·12
Worcester 1	Malvern (Free Library)	4·80	1·11	1·18	2·11	2·95	2·28	·98	4·83	2·80	2·70	1·47	3·87	31·08
,, ... 2	Stourport (Lincombe Lock)	4·29	1·34	1·07	1·97	2·19	2·28	1·21	4·67	2·53	2·58	1·51	4·06	29·70
Warwick 1	Alcester (Ragley Hall)	4·19	1·13	1·13	2·43	3·39	3·78	1·40	3·66	3·29	3·02	1·60	3·44	32·46
,, ... 1	Warwick (Mill Street)	4·23	1·05	·95	1·39	3·07	2·66	1·35	3·33	3·59	2·89	1·22	2·13	27·86
,, ... 1	Coventry (City Hospital)	4·24	·91	·80	1·48	2·76	2·05	1·64	5·06	3·44	2·45	1·35	3·11	29·29
,, ... 4	Birmingham (Edgbaston)	4·52	1·61	1·25	1·96	2·48	3·69	1·83	4·39	2·81	2·83	1·54	5·00	33·91
Leicester 2	East Norton	4·53	1·12	·87	1·23	2·31	1·46	1·77	5·29	2·84	2·89	1·39	2·73	28·43
,, ... 4	Thornton Reservoir	4·31	1·52	1·04	1·74	2·52	2·25	1·24	3·95	2·61	2·60	1·47	3·64	28·89
,, ... 4	Loughborough (Nanpantan Res.) ..	5·35	1·57	·89	1·65	2·93	1·83	1·64	4·74	2·76	2·54	1·20	4·32	31·42
Lincoln 2	Spalding (Pode Hole)	3·75	·91	·49	1·15	2·67	3·04	1·06	2·28	2·14	2·21	1·44	2·03	23·17
,, ... 3	Boston (Black Sluice, Skirbeck) ...	3·76	·77	·50	1·16	2·91	3·29	1·45	3·68	2·31	1·74	1·42	2·63	25·62
,, ... 3	Cranwell (Airfield)	3·38	·93	·41	2·07	2·11	3·66	·80	2·67	2·37	2·24	1·00	3·00	24·64

Table 8c Monthly Rainfall—ENGLAND, WALES AND THE ISLANDS (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Lincoln 3	Horncastle	4·17	1·08	·40	1·34	1·74	2·76	1·63	3·60	2·32	1·91	·84	2·55	24·34
,, ...3	Lincoln (Skellingthorpe Hall)	3·93	·58	·47	1·45	1·74	4·03	1·34	2·44	2·04	1·52	·94	2·79	23·27
,, ...4	Skegness (Marine Gardens)..	3·53	1·14	·56	·91	2·80	2·76	1·73	4·41	2·68	1·82	·83	2·99	26·16
,, ...5	Brigg (Wrawby Road)	4·36	1·22	·69	1·40	2·10	3·50	·98	2·39	1·65	1·30	·91	2·80	23·30
Nottingham 5	Nottingham (The Castle)	4·20	1·24	·55	1·13	1·99	1·97	1·14	3·60	2·55	1·95	1·21	2·76	24·29
,, 5	Mansfield (Carr Bank)	5·04	1·35	·65	1·53	2·17	2·56	1·28	3·40	2·25	1·36	·92	2·98	25·49
,, ...5	Gringley Carr Pumping Station	3·72	1·04	·52	·87	1·67	2·38	1·13	2·87	1·72	1·50	1·25	2·57	21·24
Derby 6	Buxton (Terrace Slopes)	12·15	4·00	2·29	2·44	2·06	6·96	3·66	5·54	3·11	2·91	3·15	5·22	53·49
Cheshire 2	Northwich (Hunts Lock)	6·51	1·57	·58	1·33	1·18	4·03	2·40	5·49	1·85	2·00	1·96	2·76	31·66
,, ...3	Birkenhead (Bidston Observatory)..	5·73	1·48	·77	1·11	1·14	3·06	2·58	2·36	1·62	1·69	1·67	2·95	26·16
South Lancashire .3	Manchester (Whitworth Park)	7·37	1·84	·99	1·41	1·10	4·42	2·58	4·00	2·10	2·41	1·84	2·99	33·05
,, ..3	Bolton (Queens Park)	10·23	3·02	1·65	2·19	1·81	5·57	2·98	5·19	3·18	3·21	2·43	4·50	45·96
,, ..3	Rochdale (Lord Street)	9·64	3·51	1·78	2·26	1·88	5·37	2·61	4·80	3·08	3·00	2·32	4·34	44·59
Central Lancashire 1	Stoneyhurst College	8·80	3·58	2·63	2·57	1·51	6·87	2·49	4·68	4·06	3·52	3·64	2·92	47·27
,, ,, 3	Southport (Bedford Road Park). ...	6·82	1·69	1·29	1·43	1·80	4·33	2·69	5·10	2·74	1·97	2·44	3·26	35·56
North Lancashire .1	Ulverston (Poaka Beck)	9·62	3·15	2·35	2·43	2·15	7·58	2·24	5·08	6·60	5·20	4·99	4·29	55·68
,, ..3	Morecambe	6·93	2·12	2·20	1·27	1·34	5·16	1·82	4·19	5·12	2·39	3·55	2·90	38·99
,, ..5	Blackpool (Stanley Park)	6·99	1·95	1·61	1·28	1·65	4·48	2·06	3·66	4·60	3·58	2·57	2·74	37·17
Yorkshire W.R....1	Sedbergh (Brigflatts)	10·24	4·69	5·39	3·07	2·31	7·53	3·34	6·21	8·22	5·26	6·19	5·00	67·45
,, ...7	Sheffield W.W. (Redmires Res.) ...	9·06	3·15	1·74	2·61	1·96	4·89	1·52	5·03	2·16	2·20	1·86	4·09	40·27
,, ...7	Goole	4·52	1·31	·55	1·31	1·76	3·63	1·04	3·17	1·08	1·48	·86	1·85	22·56
,, ...8	Huddersfield (Oakes)	8·98	3·16	1·63	2·44	·91	3·84	1·14	3·42	1·29	1·80	1·16	3·49	33·26
,, ...8	Wakefield (Clarence Park).....	5·40	1·51	·97	1·51	·99	2·44	1·41	3·73	1·14	1·13	·88	2·06	23·17
,, ...9	Bradford (Lister Park)	8·04	2·74	1·31	2·35	1·02	2·85	1·06	3·74	1·21	1·15	1·29	3·29	30·05
,, ..10	Ilkley (Spences Gardens)	8·41	2·48	1·73	2·28	1·41	3·36	1·13	3·84	2·39	1·65	1·60	3·69	33·97
,, ..10	Oughtershaw Hall	12·99	6·70	4·75	3·85	1·74	7·48	2·26	7·17	7·52	5·29	5·41	6·52	71·68
,, ..11	Harrogate (Harlow Moor Obsy.)	6·97	1·84	1·37	2·50	·98	3·61	1·10	4·29	1·80	1·01	1·11	3·01	29·59
,, ..11	Ramsgill	11·44	4·76	3·25	3·25	1·23	4·83	1·64	5·09	3·96	2·39	2·50	5·57	49·91
Yorkshire E.R. ...2	Birdsall Gardens	6·31	1·42	·75	1·48	2·56	5·17	1·32	3·25	1·82	1·67	1·05	2·54	29·34
,, ...3	Spurn Head (R.N. Signal Station).	3·31	·73	·37	1·88	2·26	2·41	1·06	2·47	2·69	1·69	·92	2·47	22·26
,, ...3	Hull (Pearson Park)	4·26	1·10	·61	2·05	1·95	4·69	·83	3·47	1·35	1·34	·74	2·25	24·64
,, ...3	Lowthorpe (The Elms)	4·97	·98	·77	1·16	1·91	4·55	1·12	3·98	1·47	1·69	1·02	1·94	25·56
Yorkshire N.R. ...1	Leyburn (Spennithorne Hall)	7·22	2·02	2·51	2·23	1·27	3·59	·92	3·27	1·87	·83	1·22	3·71	30·66
,, ...2	Felixkirk (Mount St. John)	5·66	1·12	1·01	1·42	1·01	5·58	1·59	3·19	1·82	1·13	·68	2·43	26·64
,, ...3	York (Museum)	4·73	1·19	·67	1·55	1·21	3·61	1·19	3·77	1·20	1·31	·99	2·13	23·55
,, ...5	Scarborough	4·56	1·13	1·06	1·07	1·44	3·75	1·49	2·61	1·54	1·42	·69	1·54	22·30
,, ..6	Kildale Hall	7·57	1·35	1·73	1·11	1·59	7·65	1·85	3·97	1·59	1·42	1·17	3·64	34·64
,, ...6	Middlesbrough (Albert Park)	5·48	·67	·92	·71	1·20	4·80	·79	3·63	1·17	1·12	1·34	1·17	23·00

Table 8c Monthly Rainfall—ENGLAND, WALES AND THE ISLANDS (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Yorkshire N.R. ...6	Baldersdale (Hury Reservoir)	8·87	3·63	2·35	3·11	1·46	4·08	·90	4·20	3·87	2·46	2·70	3·50	41·13
Durham 1	Darlington (South Park)	5·78	·97	1·29	1·13	1·35	3·26	2·77	3·96	2·28	1·14	·92	1·65	26·50
,, ...1	Barnard Castle (Bowes Museum) ..	7·62	2·13	1·74	2·56	1·20	3·01	·55	3·43	2·40	1·57	1·38	3·02	30·61
,, ...2	Burnhope (Lodgegill Mine)	10·80	5·50	3·90	4·60	2·60	7·80	2·20	8·50	7·10	4·10	4·10	5·20	66·40
,, ...2	Durham (Houghall Hort. Station) .	8·01	1·28	·85	1·49	1·55	3·68	1·91	3·93	4·21	1·69	1·57	2·55	32·72
,, ...2	Weardale W.W. (Waskerley).. ..	9·13	2·22	1·28	2·36	1·85	5·37	1·20	4·68	3·10	1·73	1·72	3·12	37·76
Northumberland .3	Newcastle (Leazes Park)	8·01	1·42	·65	1·72	1·76	3·18	·84	4·65	3·66	1·58	1·28	1·89	30·64
,, 4	Bellingham (High Green)	8·51	2·88	1·70	2·46	1·66	4·33	·79	5·66	3·97	2·31	2·62	3·47	40·36
,, 5	Morpeth (Cockle Park)	9·09	1·50	·45	1·95	1·80	2·33	·81	6·28	2·68	1·48	1·70	1·89	31·96
,, 5	Howick Hall Gardens	7·86	1·28	·36	2·71	1·39	4·02	·84	7·90	2·26	2·19	1·41	2·45	34·67
,, 6	Ilderton (Lilburn Tower Gardens) .	7·21	1·04	·79	1·93	1·24	3·77	·90	7·84	1·98	1·79	1·21	2·65	32·35
Cumberland .. 1	Penrith (Newton Rigg).....	7·12	2·82	2·64	2·46	1·19	4·66	1·11	4·00	3·04	2·19	2·43	4·27	37·93
,, ... 1	Silloth Airfield...	7·01	2·14	2·33	2·60	1·08	4·77	2·26	5·49	5·40	3·38	4·94	3·04	44·44
,, .. 1	Geltsdale	7·48	2·28	1·65	2·25	1·39	4·81	2·40	6·14	5·08	2·82	3·26	2·89	42·45
,, ...2	Borrowdale (Stockley Bridge)	22·25	10·50	14·50	6·25	6·00	16·50	10·50	14·25	20·00	14·50	16·50	14·25	166·00
,, ...2	Keswick (High Hill)	9·63	5·16	5·14	2·54	1·22	9·12	3·17	6·62	6·97	4·94	4·79	8·17	67·47
,, ...3	Ravenglass (The Grove)	7·96	2·47	2·97	2·19	1·38	5·33	2·20	3·94	5·70	4·04	4·47	5·45	48·10
,, ...3	Ennerdale (Gillerthwaite)	14·00	7·30	7·60	4·30	3·40	11·30	8·40	9·80	11·90	8·60	8·90	10·70	106·20
Westmorland 3	Kendal (Gas Works)	8·82	4·39	3·98	2·05	1·65	7·25	2·51	6·50	6·22	4·25	4·72	4·91	57·25
Monmouth 3	Newport W.W. (Nantypridd)	8·84	2·49	1·98	2·69	3·65	3·25	1·33	4·81	4·36	5·20	2·30	6·55	47·45
,, ...3	Abergavenny (Larchfield)	8·51	1·91	2·13	2·61	3·69	3·50	·71	4·79	2·81	3·79	1·90	8·63	44·98
Glamorgan 3	Swansea (Victoria Park)	8·64	1·98	1·81	2·22	2·83	4·04	2·74	6·62	4·47	4·96	3·21	6·84	50·36
,, ...3	Ystalyfera (Wern House)	13·73	3·97	5·22	3·06	4·16	7·36	3·86	9·39	8·76	6·14	5·00	13·58	84·23
,, ...6	Treherbert (Tyn-y-waun)	21·32	6·39	6·63	4·41	5·68	10·58	3·82	11·52	10·15	8·44	5·82	16·45	111·21
,, ...7	Cardiff (Penylan).....	8·56	2·38	1·77	2·64	4·01	3·59	4·29	5·65	4·18	5·61	2·45	4·95	50·08
Carmarthen 2	Llanddeusant (Pontcrynfe)	12·21	4·13	3·38	3·13	4·52	5·70	2·68	7·28	6·11	6·02	4·26	13·74	73·16
,, ...2	Abergorlech	12·52	4·01	2·67	2·64	3·81	5·78	3·96	7·86	6·92	4·82	4·53	11·63	71·15
Pembroke 4	St. Ann's Head (C. Guard Station)	7·32	1·55	2·15	2·70	1·81	3·03	2·44	3·79	3·12	4·16	3·41	4·76	40·24
,, ...4	Haverfordwest (Hospital Grounds)	8·23	1·89	1·51	2·59	2·48	3·28	2·82	4·81	3·99	3·65	4·19	6·97	46·41
Cardigan.....2	Aberystwyth (Corporation Yard) ..	5·13	1·05	1·22	1·71	1·04	5·39	2·83	6·15	3·65	4·78	3·90	6·16	43·01
,, ...2	Aberystwyth (P.B.S.)	7·29	1·71	1·93	1·78	1·90	4·09	3·11	4·93	3·88	4·89	3·78	6·17	45·46
,, ...2	Plynlimon (Llygad Rheidol)	15·40	7·90	6·50	4·10	3·00	10·30	6·10	10·80	9·50	9·60	6·50	9·50	99·20
,, ...3	Cardigan (Plas Llangoedmore)	7·43	2·01	2·40	1·93	1·89	2·64	4·07	4·22	2·63	3·46	3·65	7·90	44·23
Brecon 7	Swansea W.W. (Cray Reservoir) ...	15·56	3·94	3·89	3·93	5·58	7·28	3·45	8·32	7·84	5·19	3·77	15·59	84·34
Radnor 1	Birmingham W.W. (Tyrmynydd) ..	15·75	4·43	3·62	4·11	4·59	5·84	2·63	4·94	5·30	4·37	3·67	12·15	71·40
Montgomery 1	Machynlleth (Plas Llwyn Gwern) ..	18·79	6·69	5·94	2·96	3·06	8·62	5·79	8·81	8·65	6·61	7·25	6·99	90·16
,, ...5	Welshpool (County School)	7·24	2·41	1·02	1·48	1·83	2·94	1·41	4·24	2·32	2·10	2·61	3·87	33·47
,, ...5	Lake Vyrnwy (Fawnog)	17·74	7·38	4·07	3·23	3·39	8·13	3·54	7·31	4·95	2·56	4·69	7·31	74·30

Table 8c Monthly Rainfall—ENGLAND, WALES AND THE ISLANDS (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Flint 1	Hawarden (Airfield)	5·58	1·23	·94	1·35	1·03	2·93	2·64	2·06	1·42	1·62	1·57	3·19	25·56
Denbigh 1	Wrexham W.W. (Pack Saddle Res.)	8·48	2·08	1·18	2·36	1·33	4·51	2·43	4·10	1·32	1·68	2·26	4·87	36·60
,, ...2	Llangynhafal (Plâs Draw)	5·88	1·57	1·08	1·43	·81	4·04	2·35	3·08	1·73	1·98	2·45	4·02	30·42
Merioneth 1	Bala (Tegid Street)	13·46	4·78	2·89	2·73	2·33	5·68	2·26	5·63	3·31	3·58	4·86	6·94	58·45
,, ...1	Llandderfel (Palé Gardens).....	13·91	4·52	3·84	2·87	2·38	2·28	·72	4·66	3·61	3·28	5·20	9·16	56·43
,, ...3	Blaenau Festiniog (Oakeley Quarry).	24·07	8·20	8·84	4·38	3·27	13·89	6·80	12·78	16·34	9·51	10·78	10·15	129·01
,, ...4	Dolgelley (Borthwnog)..	11·71	3·30	3·09	2·08	2·15	8·43	4·11	5·91	5·18	5·11	5·59	7·51	64·17
Garnarvon 2	Llandudno (Cricket Ground)	5·80	1·24	1·39	1·18	·91	3·30	1·55	2·72	2·01	2·10	1·45	4·25	27·90
,, ...4	Pwllheli (West End)	10·27	2·21	2·33	2·77	1·29	3·72	2·72	4·89	2·86	2·48	3·44	5·55	44·53
,, ...5	Snowdon (Cwm Dyli)	30·09	11·84	9·59	6·54	5·30	16·75	8·66	12·78	17·09	11·68	12·41	15·27	158·00
Anglesey	Holyhead (Salt Island)	7·27	1·47	2·31	1·12	1·25	2·78	2·47	3·08	3·24	2·07	2·55	3·93	33·54
,, ...	Llanerchymedd (Llwydiarth Esgob)	8·52	1·86	2·15	1·56	2·01	3·46	2·75	3·48	3·76	2·65	3·29	4·67	40·16
Isle of Man	Douglas (Borough Cemetery)	10·89	2·93	3·01	2·28	2·60	5·82	2·48	5·72	5·40	4·10	3·81	4·90	53·94
,, ...	Point of Ayre.....	8·44	1·43	3·10	1·57	1·75	3·90	1·75	3·99	3·27	2·81	2·65	5·48	40·14
SCOTLAND														
Wigtown 1	Castle Kennedy (Lochinch)	8·42	2·37	3·14	1·47	1·49	4·31	3·24	4·47	4·43	5·67	4·59	5·85	49·45
,, ...3	Port William (Monreith)	7·63	1·96	1·39	1·73	·92	4·19	2·64	3·52	4·72	5·17	4·43	4·41	42·71
,, ...4	Kirkcowan (Craiglaw)	8·80	3·11	4·42	1·79	2·48	4·24	3·57	4·69	5·67	5·93	4·95	5·75	55·40
Kirkcudbright 3	Mossdale (Hensol)	9·29	4·50	4·59	2·69	2·29	4·92	3·77	7·26	6·80	5·73	5·01	7·01	63·86
,, ...5	Lochrutton (Dumfries Waterworks).	8·98	4·50	3·69	3·61	1·64	5·02	2·78	8·52	6·53	4·13	4·83	6·94	61·17
Dumfries 3	Dumfries (Crichton Royal Inst.) ...	7·43	3·48	2·79	3·56	2·33	6·00	2·79	7·63	4·93	3·44	4·15	6·09	54·62
,, ...5	Langholm (Arkleton Gardens).....	8·96	5·08	3·97	3·66	2·11	7·07	3·50	8·86	7·07	5·64	4·64	6·40	66·96
,, ...5	Eskdalemuir Observatory	10·24	5·83	4·53	4·41	1·77	6·93	3·99	10·00	6·87	5·97	5·30	7·89	73·73
Roxburgh 3	Crailing	5·20	1·55	1·07	1·55	1·05	3·46	1·36	7·67	2·26	2·12	1·72	2·38	31·39
,, ...7	Kelso (Floors)	6·04	1·64	·78	2·23	1·33	4·39	1·13	10·46	2·42	2·44	1·82	1·88	36·56
Peebles 1	Edinburgh W.W. (Victoria Lodge)	7·19	4·52	3·98	3·64	2·16	5·67	3·06	6·71	4·65	3·38	3·30	8·44	56·70
,, ...2	Stobo Castle	6·84	3·45	2·69	3·44	2·16	4·90	2·79	7·21	3·60	2·21	2·47	5·40	47·16
Berwick.....4	Marchmont House	7·08	1·69	·63	1·96	1·87	3·57	1·56	9·57	2·39	3·14	1·87	2·10	37·43
East Lothian 5	North Berwick Reservoir.....	5·44	1·48	·43	1·35	1·34	2·47	1·23	8·02	2·58	2·72	2·08	1·39	30·53
Midlothian 4	Moorfoot Hills (Gladhouse Res.) ..	6·56	2·20	1·85	2·48	1·61	4·42	1·98	9·87	3·21	2·34	2·03	3·56	42·11
,, ...5	Pentland Hills (Harperrig).....	8·74	3·72	2·70	2·80	1·95	5·75	2·77	8·37	3·13	2·40	3·01	4·16	49·50
,, ...5	Edinburgh (Blackford Hill)	5·27	2·14	1·06	1·48	2·34	4·02	1·94	9·40	2·58	1·61	2·33	2·20	36·37
Lanark 4	Gartcosh (Gartloch Hospital)	6·28	3·90	3·01	2·83	1·62	6·75	3·27	6·06	5·98	4·71	3·23	4·50	52·14

Table 8c Monthly Rainfall—SCOTLAND (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Lanark 5	Strathaven (Glengavel Reservoir)...	9·48	5·58	5·34	5·05	1·53	6·51	4·31	7·60	7·20	7·46	5·13	6·97	72·16
„ 5	Hamilton W.W. (Townhill)	6·17	3·99	3·17	2·89	·95	5·90	2·38	6·09	5·87	3·46	3·20	5·32	49·39
Ayr 3	Kilmarnock (Kay Park)	7·57	3·74	3·80	2·83	1·59	6·75	4·07	6·83	6·75	6·22	3·62	4·87	58·64
„ 5	Maybole (Otterden)	7·07	3·01	3·96	2·67	·87	5·98	3·75	5·06	5·85	6·53	3·60	4·94	53·29
„ 8	Colmonell (Knockdolian)	7·40	2·11	3·63	1·51	·95	4·15	2·91	3·53	4·69	5·86	2·75	6·11	45·60
„ 13	Glen Afton (Ayr Sanatorium)	10·27	5·13	6·28	3·90	1·57	6·32	3·72	7·23	5·96	5·38	4·29	9·29	69·34
Renfrew 2	Glasgow (Queen's Park)	5·70	4·16	3·33	2·62	1·17	5·79	2·94	5·94	5·93	3·85	3·31	5·16	49·90
„ 3	Greenock (Prospect Hill)	9·88	7·77	6·82	3·76	1·87	5·72	6·04	7·84	8·64	10·73	5·40	9·05	83·52
Stirling 1	Falkirk (Arnotdale)	6·91	4·49	3·29	3·09	1·68	5·11	4·45	7·62	4·69	3·39	2·96	3·80	51·48
Bute.....1	Rothesay (Ardencraig)	7·14	5·18	4·19	2·80	1·70	5·16	4·95	7·71	8·39	10·56	4·69	7·71	70·18
Argyll 2	Loch Sunart (Glenborrodale).....	8·50	6·17	5·41	4·64	1·79	5·15	4·15	5·95	10·26	9·22	5·57	11·01	77·82
„ 3	Morvern (Kingairloch).....	11·05	12·60	9·81	6·72	2·86	7·82	7·65	11·02	19·27	16·34	10·19	14·12	129·45
„ 4	Glenleven (Kinlochleven)	9·66	11·14	9·65	7·50	1·92	9·34	7·56	10·10	14·21	12·75	8·66	15·99	118·48
„ 7	Oban	8·07	6·62	5·59	5·18	1·77	4·33	4·36	5·98	9·59	10·17	6·01	8·51	76·18
„ 8	Lochgilphead (Poltalloch)	7·01	5·19	4·14	3·16	1·24	3·87	3·84	6·07	8·96	10·56	4·08	8·12	66·24
„ 9	Largie Castle	10·99	3·80	4·56	3·20	2·21	4·73	6·52	5·35	7·47	7·34	3·57	7·46	67·20
„ 10	Monybacach (Skipness)	8·92	5·59	4·97	3·35	1·30	4·78	4·84	6·26	7·96	8·46	5·10	7·66	69·19
„ 11	Ardrishaig (Canal Office).....	10·55	5·87	6·04	4·66	2·04	5·88	5·28	7·22	10·97	11·55	5·69	10·77	86·52
„ 11	Inveraray Castle Gardens	11·90	9·57	9·45	6·73	2·96	7·32	6·66	9·75	13·86	17·24	7·83	10·78	114·05
„ 12	Loch Eck (Benmore)	16·62	11·01	11·48	8·28	3·83	8·47	7·93	12·68	14·91	16·65	6·90	13·73	132·49
„ 14	Islay (Eallabus)	8·22	3·87	4·29	2·77	1·20	3·34	4·83	5·62	7·20	7·93	3·67	7·40	60·34
„ 14	Jura (Ardfin)	5·86	4·30	4·29	1·94	·11	4·24	6·30	7·11	10·67	9·80	4·92	8·36	67·90
„ 14	Colonsay	8·33	3·90	3·60	3·46	1·46	4·13	5·26	5·14	6·92	7·73	4·54	7·29	61·76
„ 14	Seil (An Cala)	7·82	6·52	4·99	4·42	1·81	4·51	6·10	6·33	10·26	12·14	4·74	8·92	78·56
„ 14	Mull (Gruline)	8·32	7·43	7·35	4·56	1·62	5·82	5·89	6·75	12·33	11·69	6·21	14·94	92·91
„ 14	Tiree	6·57	4·40	3·39	2·10	1·73	3·78	3·80	3·96	6·65	6·73	4·73	7·44	55·28
Kinross 2	Loch Leven Sluice	5·72	4·09	1·66	2·21	3·10	4·93	3·55	8·06	4·11	3·63	2·65	4·38	48·09
Fife 3	Leuchars Airfield	4·07	2·17	·68	1·42	2·58	3·44	1·55	5·67	2·67	2·93	1·11	2·83	31·12
Perth 1	Loch Dhu.....	11·25	10·90	8·43	5·45	2·76	6·30	6·62	11·45	11·42	11·93	6·69	14·16	107·36
„ 3	Glengyle	11·77	11·30	10·24	6·29	2·51	7·45	8·03	11·43	10·92	14·08	7·51	14·98	116·51
„ 4	Glendevon (Frandy)	9·47	7·28	7·21	4·04	4·66	8·04	6·40	12·65	6·36	7·30	4·44	8·65	86·50
„ 7	Lochearnhead (Edinchip)	9·94	8·62	8·48	4·91	3·45	6·19	4·88	10·23	9·43	10·10	5·01	12·67	93·91
„ 7	Crieff (Strathearn Hydro)	5·31	5·73	2·52	1·40	2·12	4·80	2·76	7·56	3·02	4·76	3·10	7·21	50·29
„ 11	Aberfeldy (Dall Avon)	7·56	4·43	3·82	2·13	2·89	3·89	1·78	6·24	3·55	3·39	1·79	7·40	48·87
„ 14	Loch Rannoch (Dall)	7·88	5·54	5·62	2·92	2·18	3·10	2·34	5·60	4·50	4·26	3·07	10·58	57·59
„ 14	Fincastle House.....	5·74	4·26	3·15	1·73	3·17	3·49	1·93	7·24	3·56	3·91	2·07	6·84	47·09
„ 15	Kirkmichael (Ballintuim House) ...	7·03	3·47	2·23	1·41	3·55	4·53	2·95	6·21	2·65	3·81	1·44	7·42	46·70
Angus 2	Dundee (Clatto Reservoir)	4·58	2·96	·89	1·36	4·71	4·28	2·67	6·88	2·45	3·31	1·27	3·84	39·20

Table 8c Monthly Rainfall—SCOTLAND (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Angus 3	Arbroath (Western Cemetery)	4·17	2·58	·77	1·73	3·16	3·15	2·31	6·82	1·73	3·22	1·28	2·74	33·66
,, ...3	Forfar W.W. (Den of Ogil)	6·05	4·19	1·14	1·43	4·72	3·79	3·83	7·15	3·53	4·36	1·92	5·34	47·45
,, ...4	Montrose (Sunnyside Asylum)	3·85	2·16	·59	1·00	3·21	3·79	2·50	5·50	1·93	2·83	1·03	3·89	32·28
Kincardine 3	Strachan (Bridge of Dye)	7·36	2·84	1·43	1·53	5·01	5·80	3·18	7·04	1·86	2·54	·64	6·30	45·53
Aberdeen 1	Braemar (Bank)..	5·08	4·10	2·12	1·62	3·52	5·20	2·20	5·75	2·59	2·30	1·17	6·48	42·13
,, ...1	Lumphanan	4·48	1·32	·88	·97	3·80	4·97	2·15	7·21	2·02	2·48	·52	4·54	35·34
,, ...2	Dyce (Craibstone)	4·70	1·04	·87	1·52	3·44	5·07	2·69	4·52	1·81	3·97	1·08	3·86	34·57
,, ...3	Haddo House	4·52	·97	·62	2·14	2·84	4·26	2·55	3·67	2·07	3·78	1·39	3·44	32·25
,, ...3	Fyvie Castle	2·87	1·30	·57	1·79	2·92	5·22	2·93	5·18	1·96	4·05	1·44	3·28	33·51
,, ...4	Peterhead (Forehill Works)	3·69	·81	·32	1·41	2·51	4·30	2·90	3·11	2·20	3·56	1·45	2·79	29·05
Banff 2	Turriff (Forglen Gardens)	2·22	·95	·55	2·02	2·56	6·15	3·09	5·96	1·90	4·19	1·66	2·28	33·53
,, ... 3	Ballindalloch	2·39	1·76	·86	2·49	2·98	6·30	3·48	6·58	2·66	3·08	1·40	3·00	36·98
Moray 2	Fochabers (Gordon Castle)	1·24	1·03	·48	1·58	1·92	4·88	3·30	7·04	2·57	3·24	1·79	2·12	31·19
,, ...3	Grantown-on-Spey (Bieldside)	2·26	1·87	·70	2·36	3·18	4·67	2·96	5·32	1·84	3·01	1·20	2·97	32·34
Nairn 2	Nairn (Achareidh)	2·10	1·78	1·08	2·37	2·38	4·03	2·46	4·77	2·40	2·33	1·74	1·83	29·27
Inverness 2	Dalwhinnie	6·03	6·43	6·32	3·56	3·65	4·69	3·43	5·88	4·66	4·46	3·76	9·64	62·51
,, ...2	Glenshero	6·05	6·25	6·16	3·77	2·15	3·26	3·37	4·74	4·17	5·66	3·86	6·25	55·69
,, ...6	Loch Ness (Garthbeg)	4·30	4·97	3·77	3·32	4·56	7·03	4·63	7·59	4·50	3·87	4·43	4·87	57·84
,, ...6	Loch Ness (Foyers)	3·95	4·53	3·48	3·48	3·78	4·86	5·25	7·91	4·42	4·47	4·93	5·28	56·34
,, ...6	Inverness (Culduthel Reservoir)	2·69	3·13	1·44	2·27	4·13	4·37	3·17	6·06	2·24	2·49	1·87	3·16	37·02
,, .. 7	Loch Quoich (Glenquoich)	13·28	9·18	12·26	8·06	3·18	7·29	7·92	7·90	15·65	14·86	11·10	13·36	124·04
,, ..12	Loch Nevis (Inverie Gardens).. ...	8·65	8·35	8·03	6·70	2·67	4·34	5·33	7·70	12·86	11·42	8·47	10·93	95·45
,, ..13	Loch Ailort (Polnish)	7·25	6·74	6·06	5·66	1·68	5·51	6·48	6·24	12·16	9·31	7·01	9·97	84·07
,, ..17	Onich	8·24	8·17	7·76	5·88	1·48	6·55	7·42	8·37	13·91	11·09	7·14	9·57	95·58
,, ..17	Fort William (Teviot).....	7·95	8·51	9·18	6·64	1·42	5·53	7·05	8·51	13·78	12·59	7·47	9·73	98·36
,, ..18	Isle of Eigg.....	6·11	5·17	4·83	4·38	2·07	3·78	5·79	4·47	9·45	10·03	7·16	6·81	70·05
,, ..18	Skye (Grula)	9·46	7·64	5·86	5·55	2·53	5·40	8·00	7·09	14·91	12·89	10·73	13·10	103·16
,, .18	Skye (Portree)	7·67	6·70	7·76	4·78	2·43	4·78	5·30	7·36	11·38	9·02	10·49	9·78	87·45
,, ..18	Skye (Duntuilm, Kilmuir)	5·65	4·43	3·77	3·36	1·49	3·66	4·16	5·55	8·74	7·61	6·31	7·98	62·71
,, ..19	Vatersay Schoolhouse	7·22	3·76	3·40	2·57	1·54	3·63	4·03	4·24	6·48	5·49	5·00	6·82	54·18
,, ..19	Benbecula Airfield	6·36	4·89	3·39	2·87	1·72	3·49	3·16	4·63	7·28	6·81	4·05	7·33	55·98
,, ..19	North Uist (Newton)	5·38	4·18	3·12	3·10	1·62	3·27	3·35	4·72	7·32	6·72	4·83	6·12	53·73
Ross and Cromarty 3	Fortrose	2·55	2·38	1·62	2·16	2·77	3·79	2·22	3·98	1·87	2·50	1·74	2·18	29·76
,, ...4	Muir of Ord (Fairburn)	4·45	4·12	3·59	3·49	3·80	3·23	2·74	5·36	2·44	4·69	3·33	5·24	46·48
,, ...7	Inverbroom (Glackour)	7·18	6·26	5·40	6·36	2·62	4·31	3·34	4·45	7·17	5·90	6·86	6·45	66·30
,, ...7	Ullapool	4·81	3·14	2·81	3·57	·99	2·24	2·30	3·32	4·62	5·14	4·48	4·39	41·81
,, ...9	Loch Duich (Inverinate)	7·44	7·53	8·64	6·42	2·77	6·32	5·72	7·31	12·33	10·89	8·60	9·63	93·60
,, ...9	Applecross Gardens	5·46	5·38	4·90	4·92	2·30	4·69	4·65	6·08	8·96	7·94	7·00	7·73	70·01

Table 8c Monthly Rainfall—SCOTLAND (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
		in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Ross and Cromarty 9	Achnashellach	9·41	7·66	8·53	8·05	2·92	5·64	5·61	6·08	11·93	11·22	10·02	7·05	94·12
,, ...10	Stornoway Airfield	5·45	4·52	3·08	3·88	1·22	2·16	2·63	3·79	7·18	4·85	4·26	5·90	48·92
Sutherland 1	Lairg	5·58	2·90	2·98	3·06	2·44	3·19	1·84	3·71	3·61	4·66	3·86	4·06	41·89
,, ...3	Kinbrace (Auchintoul)	5·12	3·41	1·97	2·69	2·93	3·71	1·95	3·40	3·38	4·43	2·87	3·98	39·84
,, ...4	Skerray (Borgie)	4·43	3·29	1·67	2·92	1·87	3·21	2·26	3·47	4·42	5·97	4·02	4·09	41·62
,, ...4	Cape Wrath	4·80	3·38	3·06	2·91	1·64	2·26	3·33	4·20	6·66	6·10	5·42	5·41	49·17
,, ...5	Loch More (Achfary)	9·98	6·51	6·79	6·31	1·72	3·45	7·02	5·58	11·73	9·09	9·03	7·81	85·02
,, ...6	Lochinver (Bank House)	4·46	4·36	3·23	3·05	1·53	3·08	3·62	3·92	7·19	6·89	5·21	4·36	50·90
Caithness 1	Berridale (Langwell)	2·51	2·97	1·02	2·47	2·71	1·93	2·04	3·44	2·18	4·10	2·66	2·39	30·42
,, ...2	Wick Airfield	3·95	2·29	1·07	1·62	1·69	2·87	1·74	2·94	3·10	4·33	2·20	2·98	30·78
,, ...3	Thurso (Buckies)	3·94	2·36	1·26	1·95	1·57	2·21	2·24	3·01	3·06	4·88	3·10	2·99	32·57
Orkney	Stenness	4·89	2·85	2·70	1·87	1·91	1·57	1·81	3·19	3·90	6·39	2·64	4·98	38·70
Shetland	Lerwick Observatory	4·79	3·54	2·68	3·01	1·85	1·90	3·22	2·17	5·64	5·79	4·39	5·74	44·72
,, ...	Baltasound (Halligarth)	5·76	3·13	2·32	2·60	2·57	2·29	2·92	1·39	4·50	6·09	4·32	4·67	42·56
NORTHERN IRELAND														
Fermanagh 1	Newtownbutler (Crom Castle)	6·29	2·34	3·23	1·63	2·45	3·96	3·51	4·11	3·77	2·52	3·69	6·59	44·09
,, ...1	Belleek (Roscor)	5·31	2·74	3·22	2·43	1·77	3·93	3·73	4·48	5·43	3·89	4·34	7·15	48·42
,, ...1	Belleek	5·47	2·84	3·09	2·32	1·75	3·73	3·91	4·04	5·29	5·07	4·19	7·05	48·75
Armagh 4	Markethill (Whitecross)	7·72	3·44	3·36	3·82	1·31	5·31	3·39	3·77	4·16	3·77	2·74	7·67	50·46
,, ...5	Armagh (Observatory)	6·72	1·82	2·59	2·50	2·29	4·33	2·46	3·50	2·64	2·26	2·64	4·52	38·27
Down 1	Newry (Bridge Street House)	7·56	2·75	2·84	2·67	1·90	2·85	3·03	3·42	2·66	3·18	2·03	6·24	41·13
,, ...2	Silent Valley (Belfast Waterworks)	12·53	3·39	2·75	2·77	3·38	4·10	3·75	4·85	5·04	5·13	3·38	6·74	57·81
,, ...2	Seaforde	8·58	2·20	2·60	2·03	3·42	2·86	2·63	4·50	3·16	2·65	2·02	6·39	43·04
Antrim 1	Belfast (Queen's University)	7·11	2·02	1·74	1·69	1·57	3·70	2·11	3·66	3·95	2·42	3·17	4·97	38·11
,, ...1	Carrickfergus (Copeland)	7·95	2·63	2·07	2·26	2·01	4·97	2·95	5·30	5·32	4·32	2·87	4·76	47·41
,, ...2	Larne (Sallagh Springs)	7·53	2·72	3·11	1·65	1·88	4·18	2·78	5·90	5·47	3·27	2·65	5·37	46·51
,, ...3	Ballycastle (Coolgreany)	7·00	1·87	2·92	1·95	1·57	3·67	3·08	3·69	3·99	4·69	2·10	5·07	41·60
,, ...5	Aldergrove Airfield	5·61	1·43	1·47	1·85	1·72	3·43	2·51	2·89	4·30	3·17	2·53	4·48	35·38
,, ...5	Ballymena (Harryville)	6·19	2·34	2·28	1·54	1·28	4·26	3·33	3·31	4·51	4·74	3·00	5·69	42·47
Londonderry 3	Garvagh (Moneydig)	5·34	2·73	2·60	2·26	1·90	3·78	2·99	3·85	4·49	3·76	2·53	6·27	42·50
,, ...3	Coleraine (Ingledene)	5·72	2·65	2·86	2·27	1·47	3·79	3·57	3·95	4·34	4·10	2·62	6·05	43·39
,, ...5	Glenedra Lodge	7·42	3·75	5·21	4·31	2·46	3·99	4·35	6·39	6·47	5·19	3·80	9·50	62·84
,, ...5	Londonderry (Creggan Reservoir)	5·86	3·15	3·04	3·42	2·03	3·78	4·80	4·72	6·16	4·56	3·30	6·16	50·98
Tyrone 2	Castlecaulfield (Parkanaur)	5·48	2·12	2·88	2·35	1·65	3·50	3·57	4·59	3·37	2·77	3·90	5·68	41·86
,, ...3	Omagh (Edenfel)	5·20	2·99	3·64	2·34	1·39	3·41	3·41	4·02	4·78	3·64	3·71	6·60	45·13
,, ...3	Sion Mills (Sion House)	4·70	3·54	3·40	2·64	1·56	3·50	2·92	4·10	4·91	3·96	3·50	5·63	44·36

Table 8D Monthly Rainfall in 1948 ; the Average, 1881-1915, being taken as 100

County and River Division	Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		%	%	%	%	%	%	%	%	%	%	%	%	%
London 2	St. Pancras (Camden Square)	194	84	31	109	157	104	45	137	74	75	75	92	96
Kent 1	Folkestone (Cherry Garden)	172	62	41	103	110	95	130	147	108	30	77	72	90
,, ...4	Edenbridge (Falconhurst)	195	118	40	76	148	155	49	200	92	53	55	135	107
Sussex 1	Compton (Compton House)	237	70	41	107	158	127	65	155	135	64	54	135	110
,, ...3	Worthing (Beach House Park) ...	203	64	45	82	103	81	58	177	76	50	77	96	92
Hampshire 1	Ventnor (Royal National Hospital).	249	77	33	79	161	69	80	201	62	56	74	117	103
,, ...8	Sherborne St. John	260	57	48	89	151	103	59	176	107	73	61	141	110
Hertford 3	Royston (Therfield Rectory)	202	55	50	90	153	164	55	161	100	83	66	80	105
Buckingham 3	Slough (Upton)	220	62	47	115	176	120	48	127	98	81	83	126	108
Oxford 3	Oxford (Radcliffe Met. Station) ...	277	54	44	104	265	94	36	150	145	81	65	110	115
Northampton.....4	Wellingborough (Swanspool)	205	57	45	104	159	142	56	97	121	142	69	118	110
Cambridge 2	March	194	42	35	81	260	98	69	107	109	121	61	73	104
Essex 1	Hatfield Broad Oak (Barrington) ..	208	98	56	132	127	144	53	172	74	104	81	93	111
,, ...3	Shoeburyness	201	109	34	114	104	93	53	163	59	44	78	93	92
Suffolk 3	Campsea Ashe (High House)	187	60	49	94	91	167	59	161	94	66	86	51	96
,, ...4	Lowestoft (Secondary School) ...	221	51	30	80	144	188	72	132	46	43	63	67	91
,, ...5	Bury St. Edmunds (Westley Hall) ..	240	69	40	97	189	127	66	158	74	51	64	73	101
Norfolk.....3	Sandringham House Gardens	209	66	40	53	231	143	72	96	112	72	56	81	100
Wiltshire 3	Porton (W.D. Experimental Station)	276	68	69	90	231	130	82	155	162	69	88	175	132
,, ...3	Bishops Cannings	256	59	49	72	201	95	31	95	106	133	48	118	104
Dorset 3	Creech Grange	210	59	43	79	111	120	70	136	116	48	62	105	94
,, ...3	Beaminster (East Street)	226	56	52	92	222	81	50	177	125	74	59	155	114
South Devon 5	Teignmouth (Den Gardens)	226	49	53	108	128	87	30	120	62	64	55	160	98
,, ...6	Cullompton	243	74	44	142	186	123	64	129	70	73	67	135	112
North Devon 2	Barnstaple (N. Devon Athenaeum) .	180	43	41	94	104	84	74	123	82	94	57	99	91
,, ...3	Okehampton (Uplands)	213	61	66	96	98	93	78	92	75	89	61	153	103
Cornwall.....1	Bude (School House)	212	54	43	103	122	135	84	112	73	129	63	132	108
,, ...2	Penzance (Morrab Gardens).....	210	46	53	118	136	107	77	125	63	129	46	130	105
,, ...2	St. Austell (Trevarna).....	223	44	57	100	93	92	68	101	77	150	72	119	104
,, ...4	Tresco Abbey	190	59	62	134	109	98	66	113	35	120	51	122	99
Gloucester 7	Cirencester (Somerford Road)	203	66	57	123	228	112	35	119	115	105	59	125	111
Hereford 1	Vowchurch (Ladywell House).....	227	67	59	140	132	106	31	137	109	55	58	176	109
Shropshire 3	Church Stretton (Sewage Works) ..	221	73	62	89	84	121	53	92	122	59	60	109	94
,, ...4	Cheswardine Hall	246	67	45	89	77	168	79	117	159	62	82	130	110
Worcester 1	Malvern (Free Library)	217	62	61	117	137	98	43	167	145	91	58	140	113
Warwick 1	Alcester (Ragley Hall)	217	68	66	144	165	166	59	132	185	110	69	140	126
,, ...4	Birmingham (Edgbaston).....	224	95	65	113	116	159	79	162	157	102	65	186	128
Leicester 4	Thornton Reservoir	218	91	57	102	125	104	50	141	144	93	65	136	110

Table 8D Monthly Rainfall in 1948 ; the Average, 1881-1915, being taken as 100 (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		%	%	%	%	%	%	%	%	%	%	%	%	%
Lincoln 3	Boston (Black Sluice, Skirbeck) ...	232	53	32	86	165	181	66	154	131	64	71	122	112
,, ...4	Skegness (Marine Gardens).....	204	75	34	68	165	153	79	181	148	66	38	136	112
Nottingham 5	Mansfield (Carr Bank)	234	70	31	88	102	113	49	122	122	45	38	103	91
Derby 6	Buxton (Terrace Slopes)	272	107	55	83	66	216	93	127	96	59	67	92	110
Cheshire 3	Birkenhead (Bidston Observatory)..	270	88	41	68	60	139	100	77	67	52	67	111	94
S. Lancashire 3	Manchester (Whitworth Park)	294	96	44	73	52	167	78	116	88	73	70	92	104
C. ,, ... 1	Stonyhurst College	206	107	71	95	53	224	64	92	106	78	81	60	102
N. ,, ...1	Ulverston (Poaka Beck)	223	85	61	81	68	235	49	94	155	94	90	78	107
N. ,, ...5	Blackpool (Stanley Park)	256	87	68	68	76	205	71	102	161	96	74	84	111
Yorkshire, W.R. ...8	Wakefield (Clarence Park).	281	88	54	90	50	113	56	143	71	39	41	85	91
,, E.R.....3	Hull (Pearson Park)	237	66	34	131	101	228	35	119	78	45	34	93	97
,, N.R. 2	Felixkirk (Mount St. John)	283	66	51	85	54	255	58	112	100	39	28	101	100
,, ,, ...3	York (Museum).....	267	79	40	97	61	174	47	150	74	49	47	95	97
,, ,, ...5	Scarborough	228	67	59	69	75	204	61	94	86	45	28	65	87
,, ,, ...6	Middlesbrough (Albert Park)	342	52	59	52	63	254	31	132	71	37	63	60	97
,, ,, ...6	Baldersdale (Hury Reservoir).....	259	121	76	129	57	173	28	120	155	62	73	94	109
Northumberland ...3	Newcastle (Leazes Park)	404	93	32	108	89	151	33	165	185	51	54	80	116
,, ...4	Bellingham (High Green)	298	113	58	114	69	188	24	160	165	59	76	96	114
,, ...6	Ilderton (Lilburn Tower Gardens)..	348	52	30	97	54	182	36	278	84	48	36	101	106
Cumberland 1	Geltsdale	267	88	59	106	54	178	70	149	181	76	99	76	115
,, ...2	Keswick (High Hill)	191	104	114	83	38	313	83	127	165	88	85	122	123
,, ...3	Ravenglass (The Grove)	238	80	96	88	49	204	59	86	169	94	100	119	113
Monmouth 3	Abergavenny (Larchfield)	252	60	70	103	138	143	29	161	120	90	50	194	120
Glamorgan 3	Ystalyfera (Wern House)	217	77	97	81	119	195	84	152	200	89	76	162	130
,, ...5	Cardiff (Penylan).....	232	81	56	106	164	143	139	134	137	118	60	99	121
Carmarthen 2	Llanddeusant (Pontcrynfe)	229	92	71	99	138	177	67	141	166	101	75	201	132
Pembroke 4	St. Ann's Head (C. Guard Station).	210	55	79	132	90	145	94	114	109	94	85	100	108
Cardigan..... ..2	Aberystwyth (Corporation Yard) ..	159	42	45	83	50	220	93	160	128	115	105	155	118
Radnor.....1	Birmingham W.W. (Tyrmynydd)..	250	84	67	111	134	179	64	92	137	66	55	148	115
Montgomery 5	Lake Vyrnwy (Fawnog)	320	166	89	100	100	250	97	142	131	43	81	105	133
Merioneth 3	Blaenau Festiniog (Oakeley Quarry)	235	100	102	71	58	214	80	114	207	93	101	80	121
Carnarvon 2	Llandudno (Cricket Ground)	241	64	68	70	51	174	69	97	94	63	50	147	99
Anglesey	Llanerchymedd (Llwydiarth Esgob).	270	74	72	71	86	146	96	96	128	59	78	106	105
Isle of Man	Douglas (Borough Cemetery)	325	92	102	93	104	240	81	150	165	90	81	99	131
Wigtown 3	Port William (Monreith)	233	64	49	79	39	178	94	91	162	131	103	97	111
Dumfries 3	Dumfries (Crichton Royal Inst.) ...	231	106	93	151	85	237	85	189	182	87	113	142	140
,, ...5	Eskdalemuir Observatory	190	118	92	130	54	220	97	194	186	111	91	113	131
Roxburgh.. 3	Kelso (Floors)	345	96	40	142	69	208	43	355	127	84	79	81	140

Table 8D Monthly Rainfall in 1948 ; the Average, 1881-1915, being taken as 100 (*continued*)

County and River Division	Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		%	%	%	%	%	%	%	%	%	%	%	%	%
Peebles 2	Stobo Castle	228	125	93	165	95	209	96	203	143	64	75	142	135
Berwick..... 4	Marchmont House	315	81	24	97	76	155	51	289	99	82	62	75	116
East Lothian 5	North Berwick Reservoir.....	316	95	23	96	67	149	48	254	123	92	92	65	120
Midlothian 5	Edinburgh (Blackford Hill)	299	129	54	101	114	201	69	293	126	59	104	94	138
Lanark 5	Hamilton W.W. (Townhill)	187	138	114	155	40	268	83	178	219	106	90	123	139
Ayr 8	Colmonell (Knockdolian)	171	81	107	60	37	164	92	88	135	132	55	109	102
„ 13	Glen Afton (Ayr Sanatorium)	201	117	150	130	52	211	89	134	153	105	78	145	130
Renfrew 3	Greenock (Prospect Hill)	153	146	147	109	57	183	163	153	192	211	89	121	143
Bute.....1	Rothesay (Ardencraig)	159	129	117	94	56	168	125	158	207	239	93	141	143
Argyll 2	Loch Sunart (Glenborrodale)	120	103	97	111	50	160	89	105	164	140	74	126	113
„ 8	Lochgilphead (Poltalloch)	139	120	108	105	43	127	93	124	196	214	72	127	126
„ 11	Inveraray Castle Gardens	145	141	149	146	75	185	134	148	216	245	93	109	148
„ 14	Islay (Eallabus)	176	92	112	97	45	128	142	129	172	166	68	125	123
„ 14	Tiree	155	128	101	85	69	148	105	94	179	148	98	142	124
Kinross 2	Loch Leven Sluice	182	145	56	115	127	225	123	210	160	106	74	111	134
Fife 3	Leuchars Airfield	224	124	35	89	132	206	60	184	138	113	48	115	121
Perth 1	Loch Dhu.....	124	146	128	115	61	151	137	170	199	167	77	140	135
„ 7	Crieff (Strathearn Hydro)	133	163	79	64	85	182	93	180	106	121	71	161	123
„ 14	Fincastle House..	164	145	114	78	150	167	72	205	142	120	56	169	133
Angus 4	Montrose (Sunnyside Asylum).....	193	117	28	55	157	228	95	197	97	103	39	140	119
Aberdeen 1	Balmoral Castle Gardens	134	117	70	72	149	314	99	189	75	53	22	137	110
„ 2	Dyce (Craibstone)	199	45	33	74	135	271	89	149	75	118	33	114	107
„ 3	Fyvie Castle	121	58	21	84	113	249	90	163	75	106	42	96	99
Moray 2	Fochabers (Gordon Castle)	61	54	21	90	91	239	103	222	103	103	62	79	105
Nairn 2	Nairn (Achareidh)	116	110	59	169	134	228	96	196	114	102	77	89	123
Inverness 3	Glenshero	113	151	168	142	81	145	111	119	118	139	81	109	121
„ 6	Loch Ness (Foyers)	94	139	108	160	55	219	174	282	150	133	126	119	148
„ 7	Loch Quoich (Glenquoich)	97	89	126	124	58	148	123	96	181	149	91	91	112
„ 17	Onich	94	120	118	131	37	169	143	124	222	171	85	97	123
„ 17	Fort William (Teviot).....	82	113	137	148	36	156	144	137	216	177	91	95	125
„ 18	Skye (Duntulm, Kilmuir)	107	96	86	103	52	141	111	125	190	140	105	128	117
Ross and Cromarty 7	Ullapool	108	76	69	118	40	98	75	97	127	109	87	72	90
„ 9	Applecross Gardens	100	107	105	144	71	164	116	129	179	133	108	120	122
„ 9	Achnashellach	103	111	126	150	69	150	115	96	173	148	116	74	118
„ 10	Stornoway Airfield	111	107	79	135	50	98	91	101	191	99	77	99	103
Sutherland 1	Lairg	170	94	96	132	96	153	59	117	128	125	97	101	112
„ ... 5	Loch More (Achfary)	137	99	105	130	39	93	131	96	204	117	106	85	112
Caithness 2	Wick Airfield	161	101	47	81	82	159	66	107	124	146	70	97	103

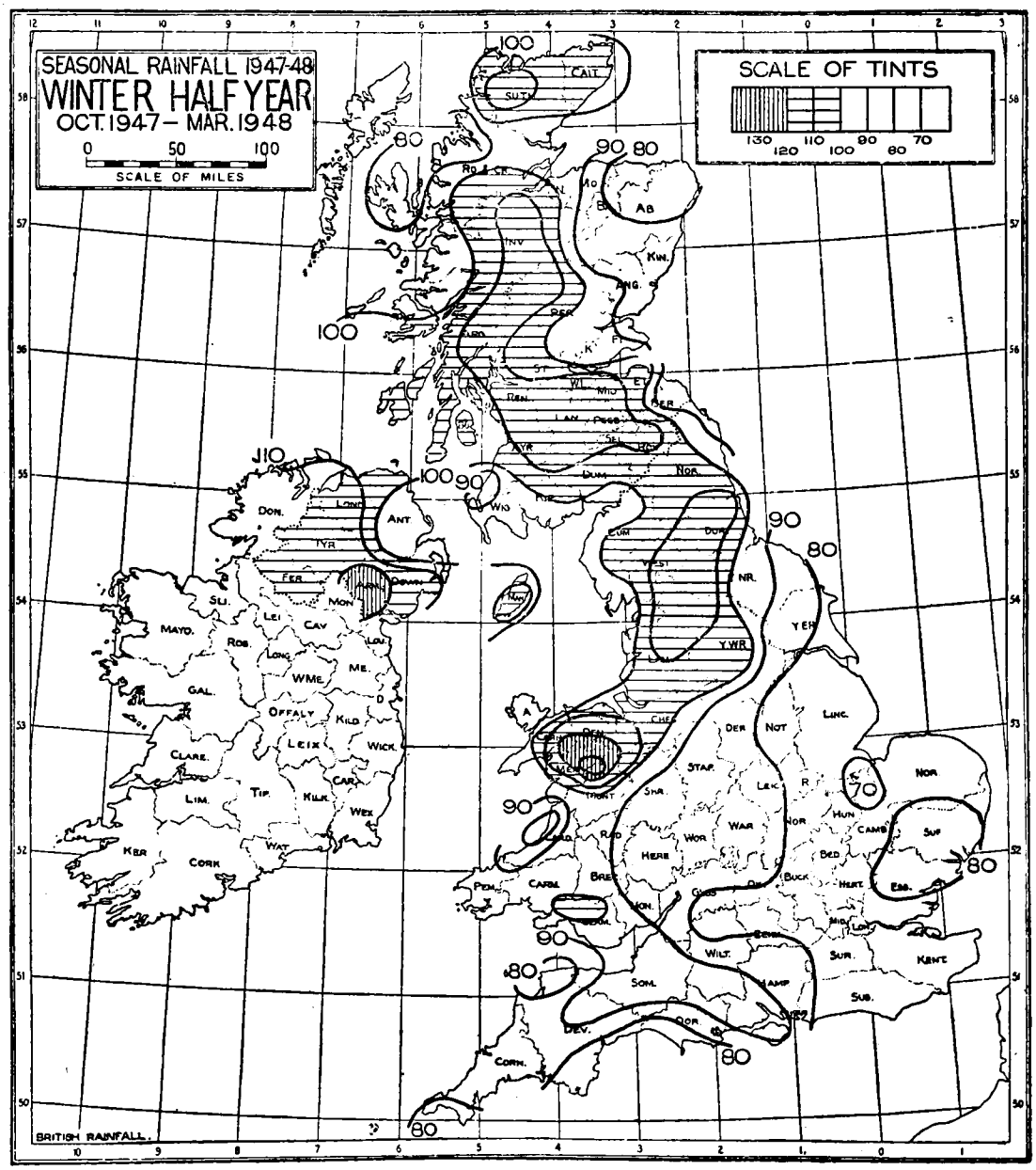
Table 8D Monthly Rainfall in 1948 ; the Average, 1881-1915, being taken as 100 (*concluded*)

County and River Division	Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		%	%	%	%	%	%	%	%	%	%	%	%	%
Shetland	Lerwick Observatory	112	112	85	131	89	106	141	72	187	146	103	120	117
Fermanagh 1	Newtownbutler (Crom Castle)	189	80	104	64	88	146	101	99	135	78	106	159	114
Armagh 5	Armagh Observatory	267	82	110	119	96	172	85	97	107	83	93	144	121
Down 2	Seaforde	272	72	89	77	130	104	82	120	115	74	53	155	112
Antrim 5	Aldergrove Airfield	205	59	59	88	76	142	90	80	173	106	78	131	107
,, ...5	Ballymena (Harryville)	167	72	72	58	45	146	97	78	145	128	74	128	102
Londonderry 3	Garvagh (Moneydig)	155	87	83	93	74	149	92	98	151	107	64	156	109
,, ...5	Londonderry (Creggan Reservoir) ..	163	99	95	133	77	134	131	102	187	124	80	141	122
Tyrone 3	Omagh (Edenfel)	147	100	116	89	54	121	100	94	157	99	98	156	112
														‡
England	(General Mean* 60 Stations)	**236**	**73**	**51**	**97**	**122**	**146**	**60**	**136**	**109**	**75**	**64**	**109**	..
Wales	(,, ,, 11 ,,)	**238**	**81**	**74**	**93**	**103**	**181**	**83**	**128**	**142**	**85**	**74**	**136**	..
England and Wales ..	(,, ,, 71 ,,)	**236**	**74**	**54**	**96**	**119**	**151**	**63**	**135**	**114**	**76**	**66**	**114**	..
Scotland	(,, ,, 43 ,,)	**163**	**110**	**88**	**114**	**77**	**180**	**101**	**161**	**155**	**129**	**81**	**112**	..
Northern Ireland	(,, ,, 8 ,,)	**196**	**81**	**91**	**90**	**80**	**139**	**97**	**96**	**146**	**100**	**81**	**146**	..

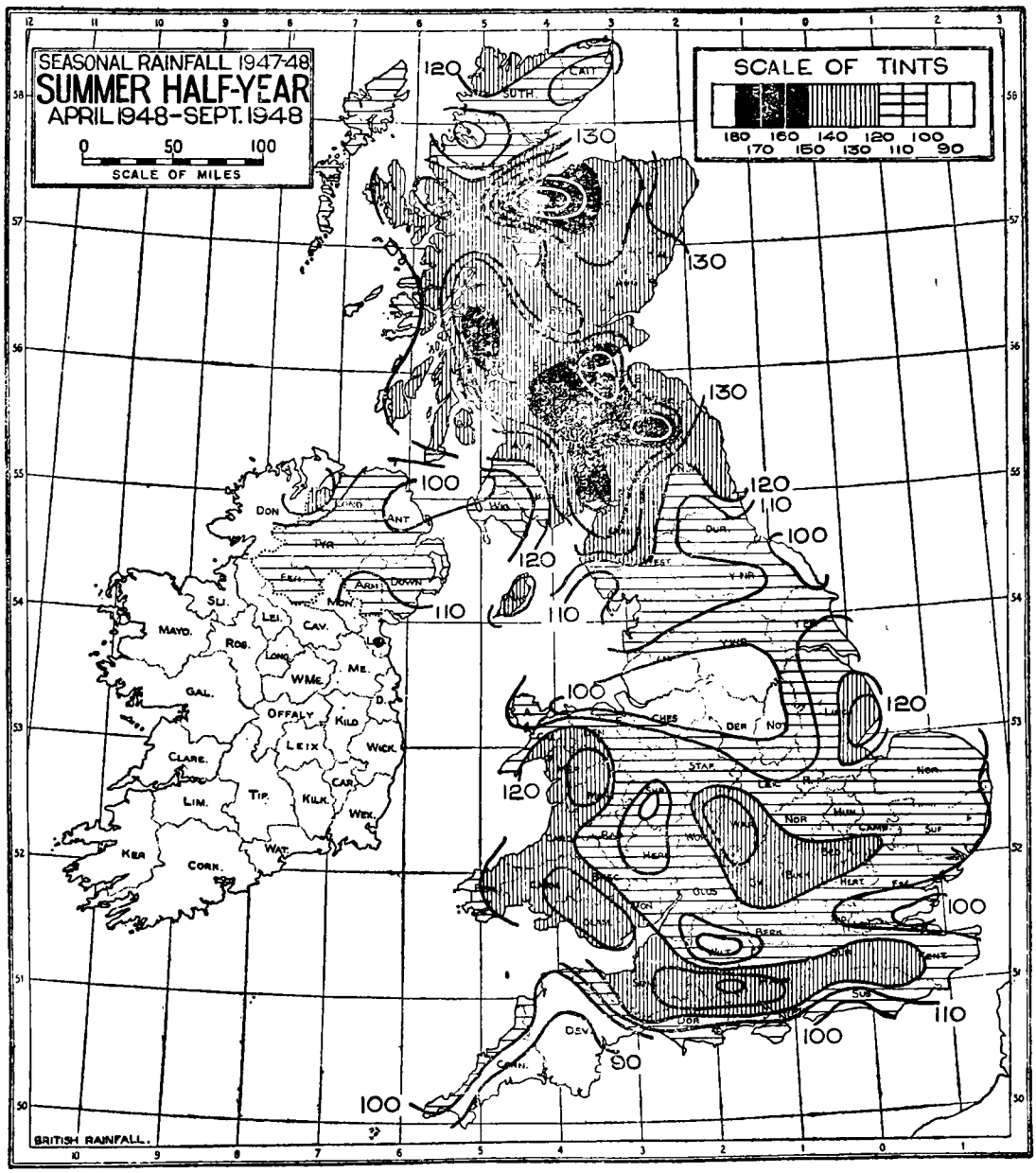
* The 'General' values given in the last five rows are obtained by taking the means of the percentage values for the stations. ‡ See Table 10A.

9 Seasonal Rainfall 1947-48

THERE are definite advantages in considering the rainfall of the winter and summer separately. One defect of the calendar year as a unit of time for rainfall purposes is that part of a winter is included in one calendar year and the other part in another year. Winter rainfall has a special economic importance, for, except in the wettest areas, the summer rainfall is, for the most part, lost by evaporation or absorbed by vegetation.



Rainfall, Winter Half-year, as per cent. of average



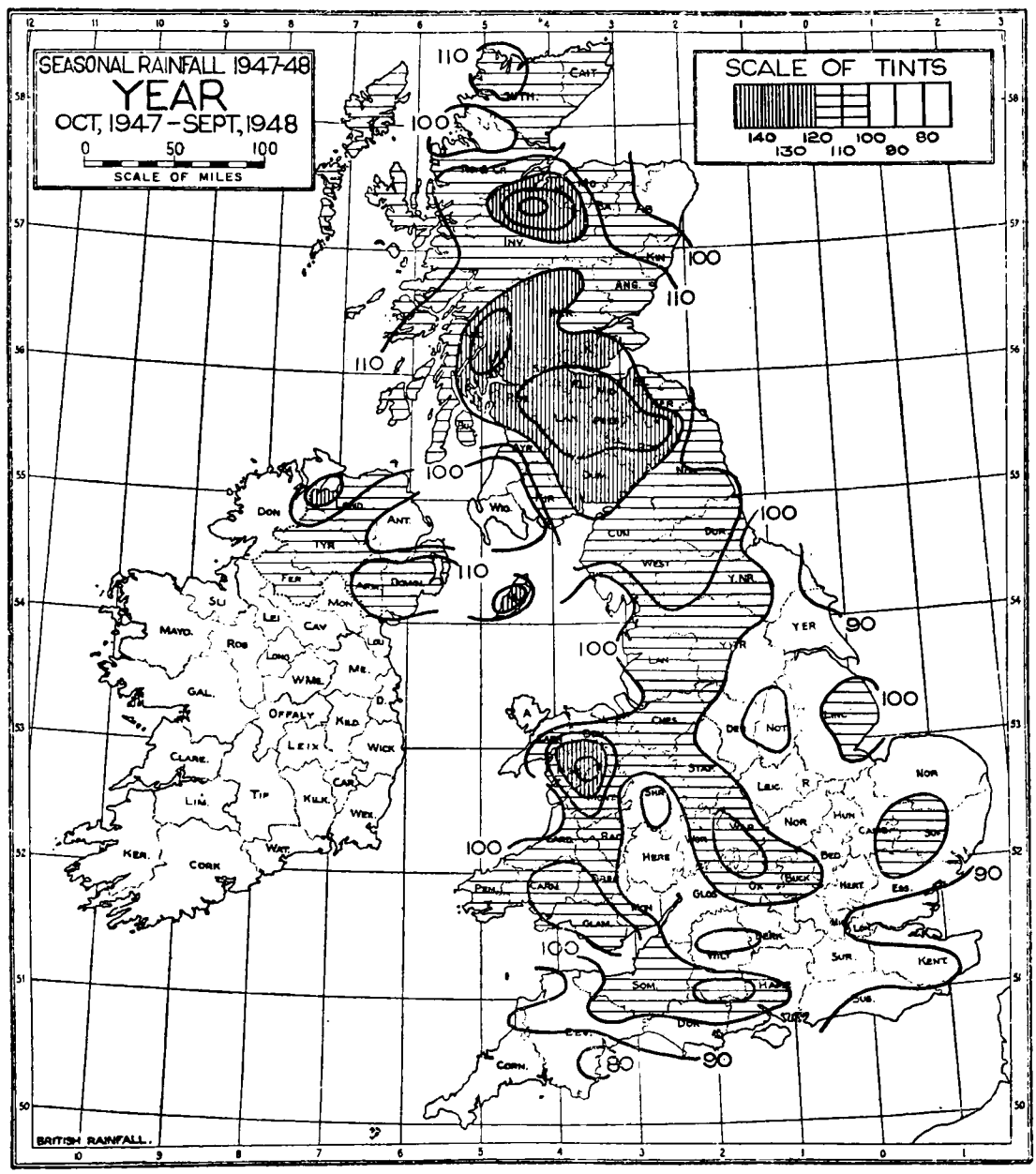
Rainfall, Summer Half-year, as per cent. of average

In this section the rainfall of the winter season, 1st October 1947 to 31st March 1948 and of the summer season, 1st April 1948 to 30th September 1948, is dealt with, as well as the rainfall of the whole seasonal year, 1st October 1947 to 30th September 1948. It is usual to associate a summer season with the preceding rather than with the following winter season, since the water required in summer for replenishing streams and for the needs of animal and vegetable life is derived, in part, from that which has been naturally stored during the previous winter season. One section of *British Rainfall* has been devoted to this subject since the volume for 1908, and three maps and Table 9A, similar to those introduced in that volume, are now reproduced.

Table 9A contains rainfall values for each of these two seasons as percentages of the average fall for the season at each station.

The table gives, in the fourth column, the corresponding percentages for each station for the whole of the seasonal year. These last figures are not always the mean of the percentages for the two seasons, but often show a bias towards the winter value rather than that of the summer. This is due to the fact that the average rainfall for the winter, is, in general, greater than that for the summer.

The stations in Table 9A are, as far as possible, the same as those used in earlier volumes. The monthly percentage values for these stations are given in Table 8D and the monthly and annual values in inches are included in Table 8C. Seasonal percentage values for the larger divisions of the country are given in Table 9B. In *British Rainfall*, 1926, p. 125, values were given for the general rainfall over England and Wales and Scotland separately back to 1906–07 and the series has been continued in the annual volumes.



Rainfall, Seasonal Year, as per cent. of average

Table 9A Seasonal Rainfall, 1947-48, as a Percentage of the Average, 1881-1915

Station†	Winter Oct. 1947-Mar. 1948	Summer Apl. 1948-Sept. 1948	Year Oct. 1947-Sept. 1948
St. Pancras (Camden Square) ...	70	102	85
Folkestone (Cherry Garden)	71	117	90
Edenbridge (Falconhurst)	73	122	94
Compton (Compton House)	81	125	99
Worthing (Beach House Park) ...	71	98	82
Ventnor (Royal National Hospital) ...	93	107	99
Sherborne St. John	84	116	98
Royston (Therfield Rectory) ...	76	121	99
Slough (Upton)	76	113	93
Oxford (Radcliffe Met. Station) ...	79	128	103
Wellingborough (Swanspool) ...	76	112	94
March	65	118	92
Hatfield Broad Oak (Barrington) ...	84	117	100
Shoeburyness	75	97	86
Campsea Ashe (High House) ...	85	111	97
Lowestoft (Secondary School) ...	73	109	90
Bury St. Edmunds (Westley Hall) ...	85	118	101
Sandringham House Gardens ...	74	116	95
Porton (W.D. Experimental Station)...	94	141	114
Bishops Cannings	81	97	88
Creech Grange	80	107	91
Beaminster (East Street)	78	124	97
Teignmouth (Den Gardens)	74	88	79
Cullompton	90	117	101
Barnstaple (North Devon Athenæum)	76	94	83
Okehampton (Uplands)	90	88	90
Bude School House	84	103	92
Penzance (Morrab Gardens)	79	103	88
St. Austell (Trevarna)	89	88	89
Tresco Abbey	88	90	89
Cirencester	73	118	94
Vowchurch (Ladywell House) ...	84	109	95
Church Stretton (Sewage Works) ...	83	93	88
Cheswardine Hall	90	115	102
Leek (Wall Grange Pumping Stn.) ...	87	100	93
Malvern (Free Library)	84	116	100
Alcester (Ragley Hall)	86	139	113
Birmingham (Edgbaston)	89	132	110
Thornton Reservoir	87	110	99
Boston (Black Sluice, Skirbeck) ...	72	131	101
Skegness (Marine Gardens)	74	136	104
Mansfield (Carr Bank)	78	99	88
Birkenhead (Bidston Observatory) ...	101	86	94
Manchester (Whitworth Park) ...	109	99	104
Stonyhurst College	111	104	108
Ulverston (Poaka Beck)	87	110	98
Blackpool (Stanley Park)	99	114	106
Wakefield (Clarence Park)	103	90	96
Hull (Pearson Park)	79	115	96
Felixkirk (Mount St. John)	94	111	103
York Museum	89	102	95
Scarborough	80	97	88
Middlesbrough (Albert Park)... ...	91	101	96
Baldersdale (Hury Reservoir)... ...	118	106	113
Newcastle (Leazes Park)	118	121	120
Bellingham (High Green)	104	117	110
Ilderton (Lilburn Tower Gardens) ...	91	126	107
Geltsdale	100	124	112
Keswick (High Hill)	105	132	116
Ravenglass (The Grove)	92	106	98
Abergavenny (Larchfield)	88	117	100
Ystalyfera (Wern House)	102	140	117
Cardiff (Penylan)	94	137	113
Llanddeusant (Pontcrynfe) ...	98	131	111
St. Ann's Head	98	113	104
Aberystwyth (Corporation Yard) ...	75	127	98
Birmingham W.W. (Tyrmynydd) ...	99	115	105
Lake Vyrnwy (Fawnog)	139	136	138
Blaenau Festiniog (Oakeley Quarry)	120	125	122
Llandudno (Cricket Ground) ...	95	93	94
Llanerchymedd (Llwydiarth Esgob)	94	104	98
Douglas (Borough Cemetery) ...	114	139	125
Port William (Monreith)	92	108	99
Dumfries (Crichton Royal Institute)	101	154	125
Eskdalemuir Observatory	101	149	121
Kelso (Floors)	110	168	139
Stobo Castle	112	154	131
Marchmont House	88	134	111
North Berwick Reservoir	101	132	117
Edinburgh (Blackford Hill) ...	116	160	139
Hamilton W.W. (Townhill) ...	114	156	132
Colmonell (Knockdolian)	88	97	92
Glen Afton (Ayr Sanatorium) ...	115	128	120
Greenock (Prospect Hill)	117	146	129
Rothesay (Ardencraig)	108	140	122
Loch Sunart (Glenborrodale) ...	92	116	101
Lochgilphead (Poltalloch)	107	120	112
Inveraray Castle Gardens	118	155	133
Islay (Eallabus)	106	124	114
Tiree	100	116	106
Loch Leven Sluice	98	164	127
Leuchars Airfield	87	135	111
Loch Dhu	106	143	121
Crieff (Strathearn Hydro)	96	125	108
Pitlochry (Fincastle House) ...	110	139	123
Montrose (Sunnyside Asylum) ...	85	139	111
Balmoral Castle Gardens	85	144	110
Dyce (Craibstone)	87	127	106
Fyvie Castle	75	126	99
Fochabers (Gordon Castle) ...	75	144	109
Nairn (Achareidh)	96	153	125
Glenshero	113	118	115
Loch Ness (Foyers)...	110	187	142
Loch Quoich (Glenquoich)... ...	102	125	110
Onich...	101	143	117
Fort William (Teviot)	99	146	116
Skye (Duntuilm, Kilmuir)	89	125	104
Ullapool	87	95	90
Applecross Gardens...	93	136	110
Achnashellach	104	128	114
Stornoway Airfield	94	116	103
Lairg	100	111	105
Loch More (Achfary)	117	120	118
Wick Airfield	108	102	105
Lerwick Observatory	96	123	106
Newtownbutler (Crom Castle) ...	112	105	109
Armagh Observatory	128	111	120
Seaforde	114	105	110
Aldergrove Airfield	91	107	99
Ballymena (Harryville)	96	95	96
Garvagh (Moneydig)	103	109	106
Londonderry (Creggan Reservoir)	117	127	122
Omagh (Edenfel)	114	103	109

† For Counties see Table 8D.

In the *winter half-year* rainfall was below average over most of the south, centre and east of England and also in the east of Scotland. Over England and Wales as a whole the period was noteworthy as it included both the driest October and the wettest January on record. The lowest percentage value in Table 9A is 65 at March in Cambridgeshire. Rather less than 80 per cent. of average was recorded over much of east and south-east England and the Midlands, locally in Dorset, Devon and Cornwall, on Cardigan Bay, and in Aberdeen and Morayshire. No English or Scottish station had so much as 120 per cent. of its average rainfall during the six months, but this figure was reached at Blaenau Festiniog in North Wales, and exceeded at Lake Vyrnwy (139) and at Armagh (128).

The *summer half-year* was wetter than usual over practically the whole of Great Britain and Northern Ireland. The excess was most marked in Scotland where the general rainfall represented 134 per cent. of average. This figure was equalled in 1924 and has been exceeded there only once in the last 40 years, viz. in the wet summer of 1927 when Scotland had 139 per cent. of the average. In 1948 the driest area in relation to average was the Devon–Cornwall peninsula where some stations had percentage values below 90. Totals representing 140 per cent. of average were recorded at Porton, Wiltshire and Ystalyfera, Glamorgan and over large areas in Scotland. Foyers, on Loch Ness, had 187 per cent. of the local average and experienced the wettest summer on record there. Northern Ireland had only 8 per cent. more than its average rainfall, but here, as also in Scotland, it was the seventh successive summer in which rainfall exceeded the average.

For the *seasonal year* the percentage values were 99 for England and Wales, 115 for Scotland and 109 for Northern Ireland. The map shows that less than the average fell in most coastal districts of England and Wales as well as over much of east and south England and the Midlands. Totals exceeded the average by at least 20 per cent. in North Wales, the Isle of Man, over most of Scotland from the Solway to Moray Firth and in the vicinity of Londonderry. In Scotland there have been only two wetter seasonal years during the last 40 years, viz. 1926–27 with the 120 per cent. of the average and 1944–45 with 116 per cent. The highest percentage value in 1947–48 was 142 at Foyers, Loch Ness, and the lowest 79 at Teignmouth, Devon.

Table 9B General Values of Seasonal Rainfall, 1947-48

Country	Winter Oct. 1947-Mar. 1948	Summer Apl. 1948-Sept. 1948	Year Oct. 1947-Sept. 1948
	%	%	%
England	86	111	97
Wales	100	122	110
England and Wales	88	112	99
Scotland	100	134	115
Northern Ireland	109	108	109

10 The Total Fall of Rain in 1948 and its Relation to the Average

The General Table, which forms Part II of this volume, gives the total rainfall for the year at nearly 5,000 stations in Great Britain and Northern Ireland. As many of these totals as practicable have been plotted on a base map on a scale of 16 miles to an inch. The distribution of rainfall has been shown on the map by isohyetal lines or lines of equal rainfall. The distribution is dominated by the orography of the country and the maps of different years resemble each other in their general features. Differences are noticeable only after detailed examination and comparison. The characteristics of a particular year are brought out better by a percentage map, such as that reproduced as a frontispiece to this volume, on which is shown the percentage ratio of the year's rainfall to the local average. The tints on this map are such that blue denotes regions where the 1948 rainfall exceeded the average for the standard period 1881–1915, while red indicates areas with rainfall below this average. Isopleths on the 1948 map are drawn through places where the values of rainfall were respectively 90, 100, 110, 120, 130, 140 and 150 per cent. of the average values. The statistics upon which the map is based are set out in Tables 8D and 10B.

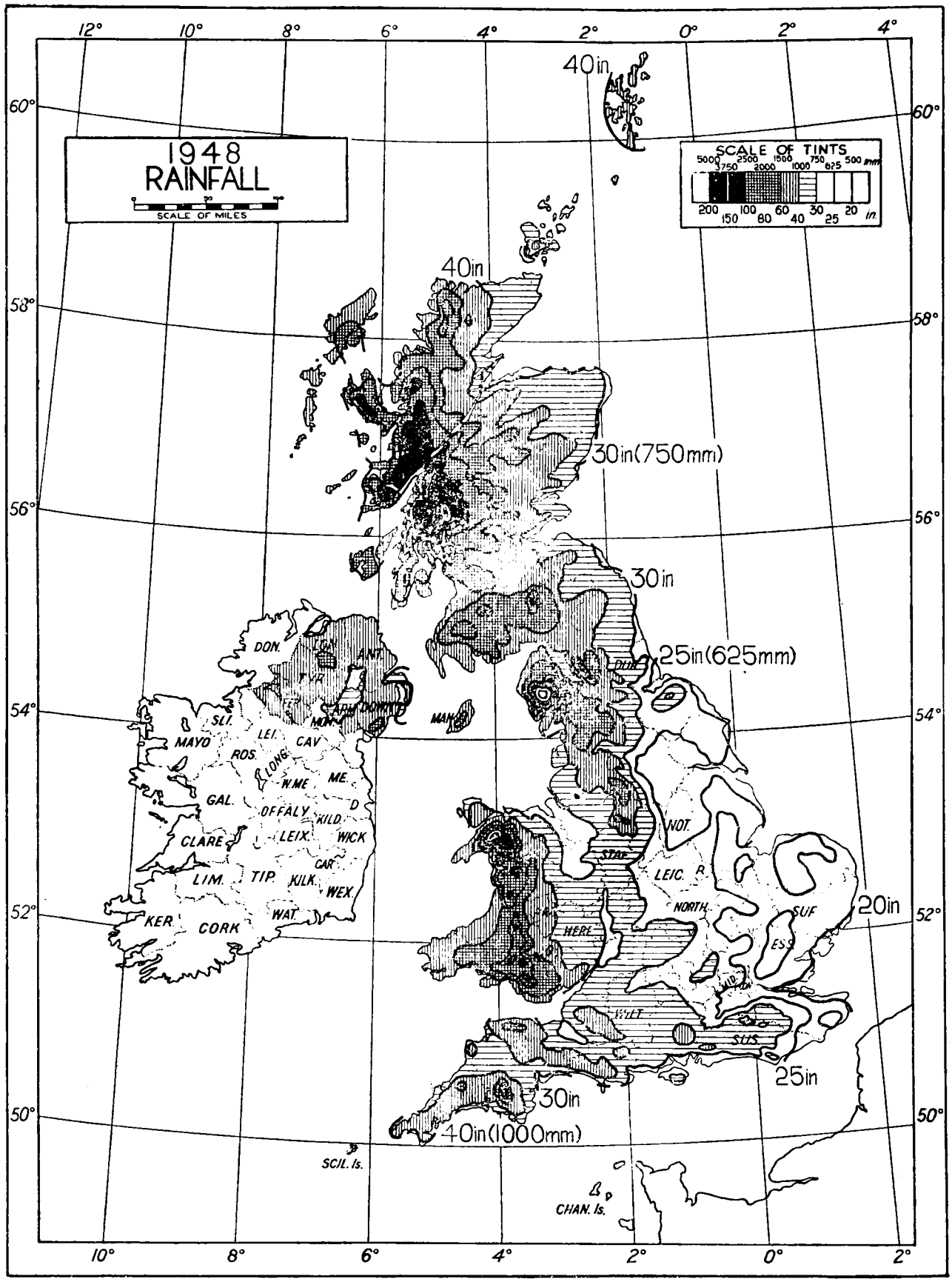
Over most of Great Britain the rainfall of 1948 was more than average. The map, reproduced as a frontispiece, shows that falls of less than the average were confined mainly to an area in the south-east and east of England, extending as far inland as London and covering most of Yorkshire. The smallest percentage values included 82 at Hastings and at Lympne (Kent). There was more than 130 per cent. over a large area to the west of Edinburgh, with more than 150 per cent. over three areas. The largest percentage values were 155 at Hillend Reservoir (Lanarkshire), 155 at Kilmarnock and 153 at Loch Eck (Argyll). Although there were unusually heavy rains in the Tweed Valley during August 6 to 12, this area does not stand out on the annual percentage map. This is a common occurrence, since persistent orographical and cyclonic rains over-shadow any distribution of local rains covering a few days.

The percentage map shows that the rainfall was on the whole above average in the west, and below in the east, a type of distribution which prevailed also in 1943 and 1938.

The percentage values of 215 stations are used to derive general values of rainfall for the year over the larger divisions of the country. These values are set out in Table 10A.

Table 10A General Rainfall, 1948, compared with average

Countries	No. of Stations	Average 35 years 1881-1915	1948	
			Per cent	Rainfall
		in.		in.
England ...	122	32·67	104	34·2
Wales	18	50·14	118	59·0
England & Wales	140	35·23	106	37·5
Scotland ...	63	50·32	123	62·0
Northern Ireland	12	39·66	113	44·7
Whole area ...	215	40·33	112	45·0


1948
RAINFALL
SCALE OF MILES
SCALE OF TINTS
5000 3750 2500 2000 1500 1000 750 625 500 mm
200 150 100 80 60 40 30 25 20 in.
40in
40in
30in(750mm)
30in
25in(625mm)
20in
25in
30in
40in(1000mm)
12° 10° 8° 6° 4° 2° 0° 2° 4°
60°
58°
56°
54°
52°
50°
10° 8° 6° 4° 2° 0° 2°
DON.
ANT.
SLI.
LEI.
MAYO
ROS.
CAV
LONG.
W.ME.
ME.
GAL.
OFFALY
KILD.
CLARE
LEIX.
WICK
CAR.
LIM.
TIP.
KILK.
WEX.
KER.
CORK
WAT.
MAN.
NOT.
STAF.
LEIC.
R.
NORTH.
SUF.
ESS.
HERT.
SUSS.
SCIL. Is.
CHAN. Is.

Over both England, and England and Wales, 1948 was wetter than any year since 1939, apart from 1946. Over Scotland the rainfall was more remarkable, only two years, 1928 and 1938, having been as wet since the outstanding year 1903. Over Northern Ireland 1948 was the wettest year since 1942.

The occurrence over Scotland of a well marked maximum at intervals of 10 years in 1928, 1938 and 1948 is interesting. It is not a feature of earlier records, and is therefore unlikely to persist. From 1868 to 1882 the maximum occurred at intervals of five years, in 1872, 1877 and 1882 ; later the maximum occurred each fourth year in 1890, 1894 and 1898 ; each third year in 1900, 1903 and 1906 ; and a wet year alternated with a dry year from 1910 to 1921.

The general distribution of the rainfall in inches during 1948 as shown on the accompanying map is similar in its main features to that for earlier years. The annual totals ranged from less than 20 inches in the Thames Estuary, extending along the coasts to Aldeburgh (Suffolk) and Ramsgate (Kent) to more than 200 inches at the wettest stations in the English Lake District.

Among the largest totals recorded for the year, the following are of interest :—

		Inches
England	Cumberland, Sprinkling Tarn	208·75
Wales	Carnarvon, Snowdon (Delta)	188·70
Scotland	Argyll, Loch Sloy (Beinn Ime ' South ') ..	167·86
Northern Ireland ..	Down, Mourne Mountains (Lough Shannagh)	77·80

Notable among the smallest totals during the year were :—

		Inches
England	Kent, Herne Bay (St. Anne's Home) ..	16·99
Wales	Flint, Prestatyn	23·67
Scotland	Ross and Cromarty, Tarbetness	24·55
Northern Ireland ..	Down, Donaghadee (Orlock Reservoir) ..	33·78

Table 10B Rainfall of 1948 as Percentage of Average, 1881-1915 *

County	Station	Per cent. of Average	County	Station	Per cent. of Average
	ENGLAND				
Surrey ...	Reigate (Wray Park Road) ...	103	Yorks W.R.	Harrogate (Harlow Moor) ...	97
Kent ...	Lympne Airport	82	,, E.R.	Spurn Head	98
,, ...	Bromley	101	,,	Lowthorpe (The Elms) ...	97
Sussex ...	Patching Farm	91	,, N.R.	Guisborough (Lockwood Res.)	97
,, ...	Horsham (Wimblehurst) ...	106	Durham	Barnard Castle (Bowes Museum)	101
,, ...	Eastbourne	92	,,	Burnhope (Lodgegill Mine)	108
Hampshire	Bournemouth	89	North'land	Hallington (Fawcett) ...	112
,,	Portsmouth (Southsea Common)	94	,,	Morpeth (Cockle Park) ...	111
,,	South Farnborough ...	95	,,	Howick Hall	123
Hertford	Harpenden (Rothamsted) ...	95	Cumberland	Borrowdale (Seathwaite)	113
Buckingham	Oving House	101	,,	Keswick (Derwent Island) ...	121
Northants	Kettering (Sewage Works) ...	115	Westmorland	Kirkby Stephen (Eden Place)	115
Bedford	Woburn (Experimental Farm)	119	,,	Rydal (High Close)	117
Cambridge	Cambridge (Botanic Gardens)	117			
Essex ...	Halstead (The Brewery) ...	110		WALES	
Norfolk	Sprowston (Church Farm) ...	81	Glamorgan	Treherbert (Tyn-y-waun) ...	128
,, ...	Cromer (Howards Hill) ...	86	Carmarthen	Llanelly (Cwmlliedi) ...	126
,, ...	Thetford Waterworks ...	104	Pembroke	Tenby (The Priory)	128
Wiltshire	Larkhill (School of Artillery)	130	Cardigan	Lampeter (Falcondale) ...	116
,, ...	Marlborough College ...	127	Montgomery	Welshpool (County School)	111
Dorset ...	Evershot (Melbury House) ...	118	Denbigh	Wrexham (Pack Saddle Res.)	114
Devon S.	Plymouth (The Hoe) ...	99	,,	Llangynhafal (Plas Draw) ...	98
,, ...	Princetown (H.M. Prison) ...	110		SCOTLAND	
,, N.	Torrington (Hillside) ...	84	Kirkcudbright	Dalry (Glendarroch)... ...	110
Cornwall	Newquay (Mount Wise) ...	96	Dumfries	Langholm (Arkleton) ...	129
,,	Falmouth (Observatory) ...	98	Roxburgh	Crailing	114
Somerset	Bath (Henrietta Park) ...	107	Selkirk ...	Ettrick Manse	123
,,	Street (Millfield)	109	Midlothian	Moorfoot Hills (Gladhouse R.)	114
,,	Milverton (Spring Grove) ...	112	,,	West Calder (Addiewell) ...	149
Gloucester	Cheltenham (Montpellier Gdns)	110	Ayr ...	Kilmarnock (N. Craig Res.)	155
Hereford	Ross-on-Wye	109	Renfrew	Paisley W.W. (Back Th'lymuir)	144
Shropshire	Shifnal (Hatton Grange) ...	115	Argyll ...	Corran Lighthouse	121
Stafford	Longton (The Meir)... ...	117	,, ...	Mull of Kintyre	115
Worcester	Stourport (Lincombe Lock)	116	,, ...	Loch Eck (Ben More) ...	153
Warwick	Coventry (City Hospital) ...	113	,, ...	Mull (Gruline)	118
Lincoln	Spalding (Pode Hole) ...	98	Perth ...	Glengyle	130
,, ...	Cranwell (Airfield)	106	,, ...	Perth (Wellshill Cemetery) ...	135
,, ...	Revesby Reservoir	99	Angus ...	Kirriemuir (Balnakeilly) ...	141
,, ...	Skellingthorpe Hall	100	Aberdeen	Braemar (Bank)	119
,, ...	Brigg (Wrawby Road) ...	95	,, ...	Lumphanan	112
Nottingham	Nottingham (The Castle) ...	103	Banff ...	Banff	112
Cheshire	Northwich (Hunts Lock) ...	106	Inverness	Inverness (Culduthel Res.) ...	134
Lancs. S.	Garston (Grassendale Park)	92	Caithness	Thurso (Buckies)	84
,, C.	Wigan W.W. (Worthington)	114			
,, N.	Morecambe	105		NORTHERN IRELAND	
Yorks W.R.	Sheffield (Weston Park) ...	95	Down ...	Waringstown (The Forge) ...	118
,,	Goole	98	Antrim ...	Belfast (Queen's University)	111
,,	Huddersfield (Oakes) ...	95	Londonderry	Glenedra Lodge	110
,,	Skipton (Chelker Reservoir)	96	Tyrone	Sion Mills	114

* See also Table 8D, pp. 72-75.

11 Evaporation and Percolation in 1948

The *evaporation gauges* in use are square tanks sunk in the ground, and the evaporation measured is that from a free water surface. A description of the standard gauge and of the procedure followed in measuring evaporation appeared in *British Rainfall* 1939 and in earlier volumes.

A new record of evaporation is available for 1948 from Rothamsted, Hertfordshire, bringing the number of stations for which data are available to 14. The monthly totals are set out in Table 11B. A standard evaporation tank was installed at Kew Observatory in the summer of 1948 and it is anticipated that a complete return will be available from that station for 1949.

The mean of the 14 records over the whole year, 16·72 inches, is almost exactly equal to the long-period average (16·78). Monthly mean values were above average in the four months February to May but this excess of evaporation was off-set by deficiencies during the mainly dull summer months June to September. The mean for the unusually warm and sunny March was 1·17 inch, which has never been exceeded in any March and has been equalled only once, *viz.* in that of 1903.

Evaporation at Camden Square (London). The monthly evaporation values for the 54 years 1885–1938 were set out in Table XXVII of *British Rainfall* 1938. The record is the longest available in the country and the annual and monthly extremes are given in Table 11A.

In 1948 evaporation at Camden Square approximated to average or was above average in all months except January and December. In these two mild and unsettled months condensation exceeded evaporation by ·24 and ·26 inch respectively, setting up new low records in both cases. The effect of the sunny and generally warm weather in the months March to May was reflected in relatively high evaporation figures, the excess over average for the three months being rather more than 2 inches. April, with 2·35 inches evaporation, just beat the record for that month (2·34) which had stood since 1912.

Percolation gauges. In Table 11C the amount of water percolating through a definite depth of soil is given. Records from three percolation gauges at Craibstone, Aberdeen were suspended early in 1948 : otherwise the list of stations is the same as for many years past. The difference between percolation and rainfall is largely to be accounted for by evaporation, but evaporation as determined in this way (known as " calculated evaporation ") is not strictly comparable with that given in Table 11B. There is no free water surface present in the

Table 11A Evaporation at Camden Square (London)

	Jan.	*Feb.*	*Mar.*	*Apr.*	*May*	*June*	*July*	*Aug.*	*Sept.*	*Oct.*	*Nov.*	*Dec.*	*Year*
Average 1885–1919	·10	·25	·66	1·51	2·43	2·91	2·97	2·33	1·38	·62	·25	·09	15·50
					Monthly Extremes 1885–1948								
	Jan.	*Feb.*	*Mar.*	*Apr.*	*May*	*June*	*July*	*Aug.*	*Sept.*	*Oct.*	*Nov.*	*Dec.*	*Year*
Largest (in.)	·26	·64	1·22	2·35	3·25	4·00	4·60	3·94	2·38	·93	·43	·32	19·69
Year	1903	1895	1945	1948	1901	1940	1911	1947	1906	1934	1888 1945	1913	1921
Smallest (in.)	c·24	·01	·16	·85	1·56	1·70	1·44	1·56	·68	·28	·02	c·26	12·60
Year	1948	1893	1947	1920	1898	1909	1888	1941	1896	1940	1892	1948	1888

NOTE : In the Table " c " indicates an excess of condensation over evaporation.

Table 11B Evaporation in 1948

List of Stations	County	Observer	Particulars of Tank: Height above Ground	Particulars of Tank: Height above Sea Level	Particulars of Tank: Side	Particulars of Tank: Capacity
			ft. in.	ft.	ft. in.	Gals.
Camden Square	London 2	Royal Meteorological Society	0 3	111	6 0	450
Rye (R.A.F. Station) ...	Kent 1	Meteorological Office ...	0 3	12	6 0	450
Otterbourne	Hampshire 5	J. Hawksley, Esq.	0 3	112	6 0	450
Petersfield	,, ... 7	C. J. P. Cave, Esq.	0 3	747	4 0	250
Rothamsted...	Hertfordshire ... 2	Lawes Agricultural Trust ...	0 3	420	6 0	450
Ormesby St. Michael ...	Norfolk 2	Gt. Yarmouth Waterworks...	0 3	21	6 0	450
Bartley Reservoir	Warwickshire ... 4	C. A. Risbridger, Esq. ...	0 3	611	6 0	450
Revesby Reservoir... ...	Lincolnshire ... 3	D. H. Ball, Esq.	0 6	124	6 0	450
Southport	Central Lancashire ... 3	The Corporation	0 3	37	3 0	112
Ardsley Reservoir	Yorkshire W.R. ... 8	Wakefield Corpn. Waterworks	0 3	392	6 0	450
Lower Laithe Reservoir ...	,, ,, ... 9	Keighley Corpn. Waterworks	0 6	772	6 0	450
Harrogate	,, ,, ... 11	D. G. Davies, Esq.	0 3	549	6 0	450
Talla Water	Peebles 1	Edinburgh Waterworks ...	0 3	904	6 0	450
Amlaird Filters	Ayr 3	W. N. McCall, Esq.	0 4	590	†	650

1948	Camden Square	Rye	Otter-bourne	Peters-field	Rotham-sted	Ormesby St. Michael	Bartley	Revesby
	in.	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*
January	c·24	c·16	c·55	·02	·26	·19	·33	·39
February	·40	·38	·54	·16	·34	·66	·48	·73
March	1·17	1·49	1·66	1·31	1·38	1·05	1·18	1·11
April	2·35	2·32	2·61	2·22	2·38	2·08	1·58	1·67
May	3·15	3·70	3·42	3·65	3·21	2·55	2·81	1·91
June	3·16	3·33	2·85	2·94	2·97	2·77	2·43	1·57
July	3·00	2·93	2·81	3·04	3·28	2·26	2·41	2·03
August	2·05	2·58	2·11	2·29	2·75	2·29	2·19	1·83
September	1·79	1·83	1·89	1·61	2·11	1·64	1·62	1·15
October	·63	1·20	1·06	·98	1·18	1·05	·84	·72
November	·24	·33	·40	·26	·38	·38	·39	·36
December	c·26	·26	c·93	·00	·33	·26	·31	·37
Year	17·44	20·19	17·87	18·48	20·57	17·18	16·57	13·84
Average, 1908-1942	15·39	...	19·71	17·00	...	17·26	17·19	...
Difference	+2·05	...	−1·84	+1·48	...	−·08	−·62	...

1948	South-port	Ardsley Res.	Lower Laithe	Harro-gate	Talla Water	Amlaird Filters	Mean of 14 records	Average 1908-1942
	in.	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*
January	·26	·32	c·29	·37	c·55	c·07	·02	·14
February	·34	·42	·55	·40	·00	·30	·41	·29
March	·80	1·18	1·11	1·04	·88	1·01	1·17	·79
April	1·29	1·72	1·69	1·99	·95	1·29	1·87	1·62
May	2·69	2·68	3·11	2·88	2·47	2·84	2·93	2·53
June	2·40	2·56	2·62	2·88	2·08	1·78	2·59	3·07
July	2·60	3·00	2·65	2·83	2·26	2·37	2·68	2·98
August	1·62	2·58	1·77	2·15	1·42	3·27	2·21	2·44
September	·85	1·65	1·12	1·65	·82	1·71	1·53	1·59
October	·33	1·05	·67	1·23	·34	·73	·86	·84
November	·09	·24	·08	·52	·13	c·02	·27	·34
December	·09	·38	·05	·38	·12	1·20	·18	·15
Year	13·36	17·78	15·13	18·32	10·92	16·41	16·72	16·78
Average, 1908-1942	15·82	17·59	15·10	19·53	...	...	...	...
Difference	−2·46	+·19	+·03	−1·21	...	...	...	...

NOTE : In the Table " c " indicates an excess of condensation over evaporation. † 6ft. × 4ft.

percolation gauge, and during dry periods the surface soil is nearly dry, so that practically no evaporation can take place. In dry years the calculated evaporation, as obtained from the percolation gauges, will be less than similar values for wet years, and less than the values obtained from the water surface in a tank.

In 1948 the mean " calculated evaporation " from the ten percolation gauges was 18·41 inches compared with the mean loss from the 14 evaporation tanks of 16·72 inches. The larger value obtained by the use of percolation gauges is mainly due to the distribution of the stations. The high percolation values in January, which is a feature of Table 11c, are associated with the exceptionally heavy rainfall of that month.

At *Farlington* the five percolation gauges gave totals which varied appreciably, ranging from 9·77 inches (through shallow chalky marl) to 4·05 inches (through sand). *Rothamsted*, unlike Farlington, recorded appreciably more percolation in 1948 than in 1947. The longest period with no percolation at this station was 46 days from February 15 to March 31. Both gauges at *Fleam Dyke* recorded less percolation than is usual, though more than in 1947. A notable feature was the relatively large totals in August. *Harrogate*, with 13·59 inches percolation, again had the largest total of the 10 records available. Exactly half the year's percolation (6·80 inches) was recorded in the wet January.

Drainage Gauges at Prescot (Liverpool). Two seepage gauges were installed at Prescot and observations began there in January 1943. Each gauge consists of an undisturbed column of soil from ancient parkland, 11 inches in depth, encased by a cast iron cylinder. The column of soil is supported by fine woven wire mesh on a funnel-shaped impervious concrete base through which a vertical lead pipe leads to a glass collecting vessel in a chamber underneath. The whole gauge is sealed to prevent water other than rainfall gaining ingress, while the lip of the containing cylinder is one inch above the surface. The area of the receiving surface of the gauge is precisely ten times the area of the receiving surface of a 5-inch rain-gauge ; the water seeping through and collected in the glass vessel is measured daily by using the certified rain-gauge measure. The rainfall is measured in a rain-gauge alongside.

The gauges are situated in an open field and their surfaces are level with the surrounding ground. In one gauge the soil is bare and kept weeded, while in the other the original growth of grass remains and this is kept cut to two inches.

In 1948, as in previous years, the seepage through bare weeded soil was rather more than through grass covered soil.

Seepage–Percolation Gauges at Lake Vyrnwy. At Lake Vyrnwy are two seepage gauges similar to those at Prescot. The productive soil on the field in which the Experimental Station is situated is about 9 inches thick and has been under grass. In one gauge the grass was left, while in the second the plant life was burnt off and the soil is bare and weeded.

The object of seepage-percolation gauges is, by reproducing on a small scale the conditions that are inferred to occur on a large self-contained drainage basin, to measure the water which has seeped through the upper soil down to a zone of saturation and then flowed to a point of discharge as a spring.

A gauge consists of two stages, a seepage zone and a percolation zone. The seepage zone is similar to the grassed seepage gauge. The drainage from the seepage column is led to the base of a cylinder 6 ft. deep in which it percolates through a rock core overlain by soil; thence the effluent flows out through a pipe fixed just below the soil surface. The rock placed in the cylinder is chalk, as in the Farlington, Hants, gauges. The outflow pipe

Table 11c Rainfall, Percolation and Calculated Evaporation in 1948

(Unless otherwise stated, the size of the percolation gauges is 3 ft. × 3 ft. × 3 ft.)

1948	Farlington, Hants Gauges 36-inch diameter						Rothamsted, Herts 1/1000 acre gauges			Fleam Dyke, Cambs 1/1000 acre gauges			Harrogate Yorks	
	Rainfall	Percolation					Rainfall†	Percolation*		Rainfall	Percolation		Rainfall	Percolation
		24″ Chalky Marl**	36″ Chalky Marl**	48″ Chalky Marl**	36″ Sand‖	36″ Chalk‖		20″ Soil	60″ Soil		36″* Chalk	36″‡ Chalk		
	in.	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*	*in.*
January	5·43	5·11	4·64	2·77	2·84	1·92	4·93	4·92	4·99	3·06	3·00	1·54	7·03	6·80
February	1·34	·70	·71	·94	·86	1·02	·99	·59	·77	·74	·42	·54	1·94	1·64
March	·71	·01	·00	·01	·01	·02	·88	·00	·21	·69	·02	·00	1·46	·18
April	1·64	·11	·00	·02	·04	·13	1·38	·44	·46	1·14	·00	·00	2·63	·36
May	2·41	·00	·00	·00	·00	·00	2·96	·80	·67	2·50	·76	·00	1·06	·45
June	2·21	·00	·00	·00	·00	·00	2·86	·50	·41	1·93	·13	·00	3·80	·49
July	1·26	·00	·00	·00	·00	·00	·89	·10	·07	1·15	·06	·00	1·07	·07
August	3·86	·00	·00	·00	·00	·00	2·52	·68	·60	4·96	1·94	1·90	3·86	1·15
September	1·94	·00	·00	·00	·00	·00	1·76	·54	·46	1·44	·16	·00	1·92	·22
October	2·01	·00	·00	·00	·00	·00	2·17	1·06	·95	1·57	·23	·00	1·17	·04
November	1·81	·71	·00	·00	·00	·00	1·65	1·40	1·34	·91	·58	·46	1·28	·22
December	4·04	3·13	2·11	·96	·30	1·95	2·96	2·58	2·49	1·14	·29	·72	3·56	1·97
Year	28·66	9·77	7·46	4·70	4·05	5·04	25·96	13·61	13·42	21·23	7·59	5·16	30·78	13·59
Calculated Evaporation	..	18·89	21·20	23·96	24·61	23·62	..	12·35	12·54	..	13·64	16·07	..	17·19

† Values obtained from 5 inch gauge.
* Through bare unworked soil.
** Depths include 12 in. of top soil and turf.
‖ Depths include 6 in. of top soil and turf.
‡ Through turfed soil.

represents a spring. The surface of the percolation column is below the bottom of the seepage column. The ultimate run-off is collected in a glass vessel in a chamber and measured daily. As the area of the combined exposed surfaces is a multiple of the receiving surface of a Meteorological Office rain-gauge, the certified measure of the adjacent rain-gauge is used for run-off measurement.

The 1948 data, supplied by the Engineer, Liverpool Corporation Water Works, are set out in Table 11D.

The records of all four gauges are in close agreement showing seepage or percolation of about 62 inches in a year when the rainfall was 80 inches. The " calculated evaporation " agrees very closly with the mean of the 10 stations in Table 11C.

Table 11D Drainage Observations in 1948

1948	Prescot, Lancashire			Lake Vyrnwy, Montgomery				
	Rainfall	Seepage* Gauges		Rainfall	Seepage* Gauges		Percolation† Gauges	
		Bare Soil	Turfed Soil		No. 1 Bare Soil	No. 2 Turfed Soil	No. 3 Grass covered over chalk	No. 4 Grass covered over chalk
	in.	in.	in.	in.	in.	in.	in.	in.
January	6·85	6·43	6·45	19·62	18·26	18·43	18·87	18·43
February	1·99	1·51	1·49	8·25	6·72	7·34	7·17	7·05
March	·80	·00	·00	4·70	3·12	3·28	3·39	3·40
April	1·28	·01	·07	3·85	2·33	2·51	2·50	2·55
May	1·58	·04	·00	3·02	1·25	·93	·82	·88
June	3·83	1·55	·50	6·95	4·70	4·57	4·61	4·65
July	2·43	1·20	·62	3·30	1·08	1·23	1·07	1·10
August	4·23	1·44	1·15	7·95	5·77	6·04	5·73	5·91
September	1·68	·25	·22	5·00	3·54	3·63	3·63	3·67
October	2·66	1·09	1·16	3·28	2·56	2·72	2·55	2·64
November	1·96	1·66	1·73	5·10	4·61	4·87	4·87	4·92
December	3·18	2·63	2·64	9·25	7·35	6·64	6·65	7·25
Year	32·47	17·81	16·03	80·27	61·29	62·19	61·86	62·45
Calculated Evaporation ..	..	14·66	16·44	..	18·98	18·08	18·41	17·82

* The receiving surface of the Seepage gauge is ten times the receiving surface of a 5-inch diameter rain-gauge.

† The receiving surface of the Percolation gauge is thirteen times the receiving surface of a 5-inch diameter rain-gauge.

M.O. 536a.

METEOROLOGICAL OFFICE, AIR MINISTRY

BRITISH RAINFALL ORGANIZATION

BRITISH RAINFALL, 1948

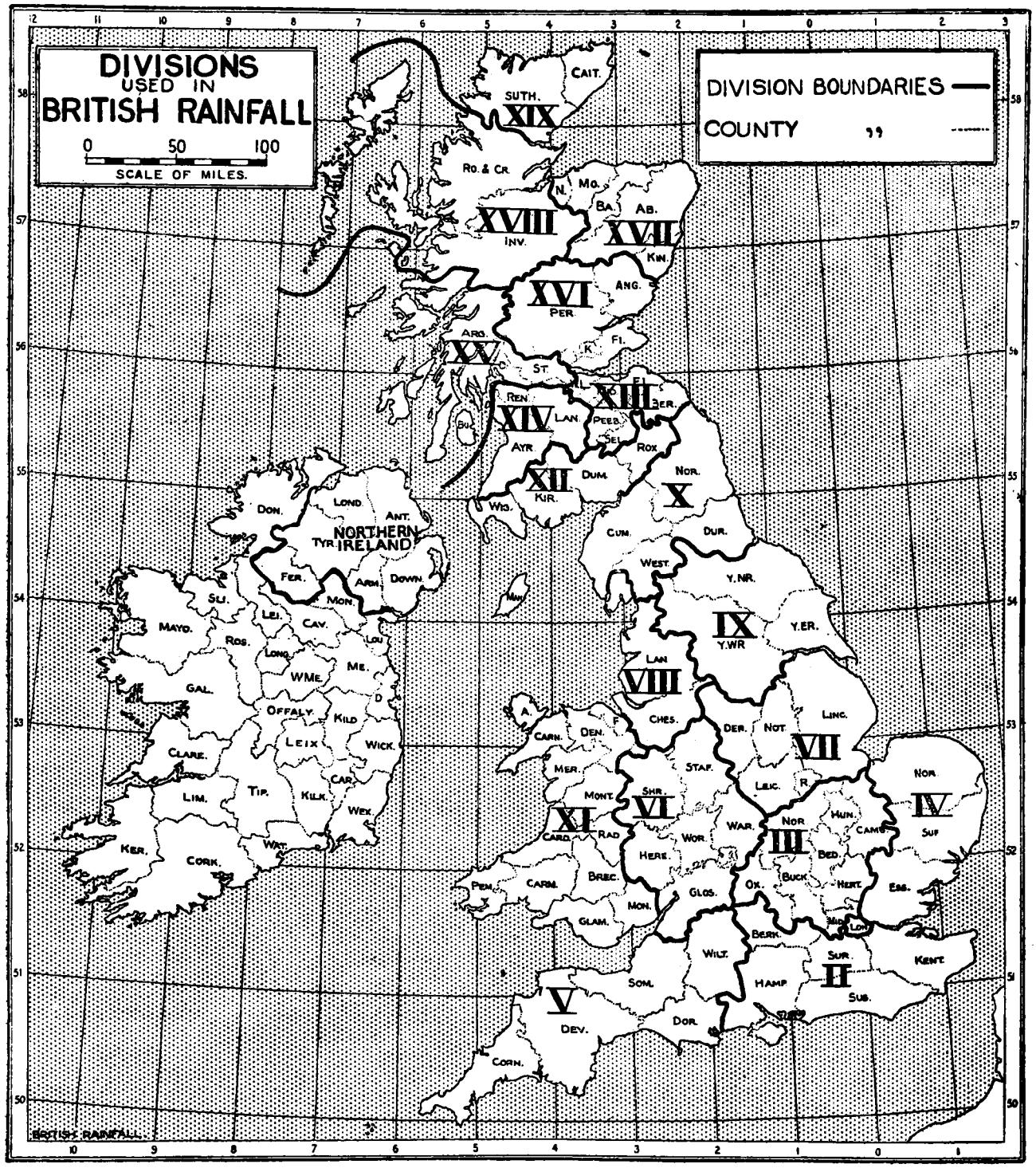
PART II

General Table of

TOTAL RAINFALL IN 1948

AT STATIONS IN GREAT BRITAIN AND NORTHERN IRELAND WITH THE NAMES OF THE OBSERVERS OR OTHER AUTHORITIES FOR THE OBSERVATIONS

17866 D


DIVISIONS
USED IN
BRITISH RAINFALL
0 50 100
SCALE OF MILES.
DIVISION BOUNDARIES
COUNTY
XIX
XVIII
XVII
XVI
XV
XIV
XIII
XII
X
IX
VIII
VII
VI
XI
IV
III
II
V
SUTH.
CAIT.
Ro. & Cr.
INV.
N.
Mo.
Ba.
AB.
KIN.
ANG.
PER.
ARG.
K.
FI.
ST.
REN
LAN
PEEB.
SEL.
BER.
ROX.
AYR
DUM.
KIR.
WIG.
NOR.
CUM.
DUR.
WEST.
Y.NR.
Y.ER.
Y.WR
LAN
CHES.
DER.
NOT.
LINC.
CARN.
DEN.
MER.
STAF.
SHR.
MONT.
LEIC.
R.
NOR.
HUN.
CAMB.
SUF
WOR.
WAR.
CARD.
RAD
HERE.
BED.
BUCK.
HERT.
ESS.
OX.
GLOS.
BREC.
CARM.
PEM.
MON.
GLAM.
BERK.
WILT.
SUR.
KENT.
SOM.
HAMP
SUB.
DOR.
DEV.
CORN.
DON.
LOND.
ANT.
NORTHERN
IRELAND
TYR
FER.
ARM
DOWN
MON.
SLI.
LEI.
CAV.
LOU
MAYO.
ROS.
LONG.
WME.
ME.
GAL.
OFFALY.
KILD
D
LEIX
WICK.
CLARE.
LIM.
TIP.
CAR.
KILK.
WEX.
KER.
CORK.
WAT.
BRITISH RAINFALL

General Table of Total Rainfall in 1948

EXPLANATORY NOTE

The Divisions of Great Britain in the General Table are the same as those adopted by the Registrars-General of England and Scotland. They are shown on the map facing this page.

The counties are divided up into numbered areas, corresponding to the river-basins. An account of these river-divisions for England and Wales was given in a special article in Part I of *British Rainfall*, 1910 (pp. 37–66), and a similar article on the river-divisions of Scotland and Ireland appeared in Part I of *British Rainfall*, 1911 (pp. 40–72), with detailed maps showing all the river-divisions in each Division. Lists were also included showing the various river-divisions in each of the main catchment areas over the British Isles. The areas of some river basins have been redetermined since these lists were first published. The sequence of river divisions in Great Britain proceeds anti-clockwise from the Solway Firth. For example, in the West Riding of Yorkshire we have four divisions for rivers flowing to the Irish Sea, followed by eight divisions for rivers tributary to the Humber. To the names of river-divisions "& C" is added to indicate "and other streams flowing into the sea," while "& c" means "and some land draining to the main river."

The stations in each river-division are arranged nearly in the order of their latitude from South to North. For convenience, the first name defining a station is that of a place which can be found on any large scale map; occasionally it is in an adjoining county. The second name is added to fix the site of observation more closely, *e.g.*, "Godalming (Burgate)" means Burgate, near Godalming.

An index of River Basins, indicating the various river-divisions in each county included in the main river-basins of the British Isles, was included after this Explanatory Note in *British Rainfall*, 1937 and 1938.

Stations the names of which are printed in small capitals, *e.g.*, KENSINGTON PALACE, are climatological stations in association with the Meteorological Office.* For the majority of these a summary of the climatological observations is printed in the *Monthly Weather Report.*

In some cases the records have been received from a local rainfall organization. This has been indicated by a footnote.

The letter D signifies that daily observations have been received and are complete for the year; d, that less complete daily records have been received; w indicates that weekly readings have been received, and M that the gauge is read only once a month, usually on the 1st.

(R) denotes that the gauge is a mechanical one the correct reading of which depends on the mechanism being in working order.

The use of mechanical gauges for measuring the total rainfall is not recommended by the Meteorological Office and the number of records marked (R) is therefore small.

* In the case of Division I small capitals are also used to indicate the names of London Boroughs.

(+A) denotes that the amount of rainfall is taken from an ordinary gauge but that the equipment also includes an autographic instrument.

Gauges which have been inspected and found to be over-exposed on moorland have been so marked. It is likely that there are other gauges (notably some of those at light-houses) which are also over-exposed.

A column giving the annual average rainfall expressed to the nearest tenth of an inch has been included since 1926. The averages are printed in ordinary type if they are either the mean of the annual values for the standard period 1881 to 1915, or, in the case of shorter records, if they have been reduced by the accepted method to the standard period. In such cases all the available information has been used in the computation of the averages, means for stations with short records being weighted to the standard period 1881 to 1915 by comparison with nearby stations with records complete from 1881 to date. If the computation has been made outside the office the average is printed in italics, since it may subsequently be revised slightly. The average is also given in italics if it is the mean for twenty or more years other than the standard period or if the mean has been weighted to some other period. Averages for the standard period of 35 years 1881 to 1915, are always preferred for entry in the table.

A few entries of total rain will be found in brackets—indicating that the values have been corrected, *e.g.*, when appreciable snow has been lost, when the amount for a short period has been computed from other records, or when the gauge has been moved a short distance during the year. A record is not as a rule printed if the gauge has been moved more than a mile, or if there is a greater difference than 50 ft. of altitude between the two positions.

A note of interrogation(?) implies doubt, not necessarily error. The absence of information is indicated by ...

COUNTY INDEX TO GENERAL TABLE

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Essex 118
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DIVISION I—LONDON (Area 117 sq. mi.)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	1.—THAMES. Right Bank Tributaries. 67 sq. mi.		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	BERMONDSEY								
D	Southwark Park	London County Council ...	5	1 0	9	24·4	21·27	140	112
	LAMBETH								
D	Brockwell Park ... ... (+A)	London County Council ...	5	1 0	144	23·8	21·75	133	107
D	Brixton Hill Reservoir	Met. Water Board	5	1 0	121	23·9	21·01	139	108
	WANDSWORTH								
d	Streatham (Conyers Road)	Met. Water Board	5	1 7	113	23·3	20·33	...	109
D	Streatham (Woodbourne Avenue) ...	G. E. Patston, Esq. ...	5	1 0	130	...	23·24	147	116
D	Streatham Hill Reservoir	Met. Water Board	5	1 0	202	23·3	21·49	142	108
D	Putney Heath Reservoir ... (+A)	Met. Water Board	5	1 0	184	...	23·16	156	113
D	Streatham (Furzedown Rec. Ground)	H. W. Tee, Esq., C.E. ...	5	1 6	89	24·7	22·39	147	113
D	Southfields (Coronation Gardens) ...	H. W. Tee, Esq., C.E. ...	5	1 6	37	23·6	22·74	156	110
	CAMBERWELL								
D	Nunhead (Nunhead Reservoir) ...	Met. Water Board	5	1 0	175	...	20·42	131	109
	DEPTFORD								
D	Telegraph Hill	London County Council ...	5	1 0	155	...	21·33	148	110
d	Waterworks	Met. Water Board	5	1 0	20	23·0	21·93	...	109
	GREENWICH								
D	Deptford Pumping Station ... (+A)	London County Council ...	8	2 8	13	22·4	20·55	144	102
D	ROYAL OBSERVATORY	The Astronomer Royal ...	8	1 0	149	23·5	22·80	155	111
	LEWISHAM								
D	Catford Hill (Exbury Road)	Rev. T. R. Price, M.A. ...	8	1 3	66	...	22·56	150	115
D	Forest Hill Reservoir ... ... (+A)	Met. Water Board	5	1 0	339	...	22·56	143	115
	WOOLWICH								
D	§Eltham (High Street) ... ... (+A)	Met. Water Board	5	1 0	245	23·2	24·25	147	110
	2.—THAMES. Left Bank Tributaries. 50 sq. mi.								
	KENSINGTON								
D	Holland House...	Mr. P. B. Rintoul	5	1 0	68	23·9	22·37	131	109
D	Campden Hill Reservoir	Met. Water Board	5	1 0	138	24·5	22·08	137	110
D	KENSINGTON PALACE ... ... (+A)	H.M.O.W. (M.O.)	5	1 0	80	24·0	23·73	151	111
	HAMMERSMITH								
D	Pumping Station	London County Council ...	5	6 0	19	23·2	21·17	138	105
	FULHAM								
D	Bishops Park ... ... (+A)	Borough Engineer	5	1 4	15	22·6	21·25	134	110
	CHELSEA								
D	Physic Garden	G. S. Boon, Esq.	8	1 0	20	23·4	20·65	138	110
	WESTMINSTER								
D	Western Pumping Station ... (+A)	London County Council ...	8	1 9	16	...	19·92	126	102
D	Buckingham Palace	Mr. A. J. Cole	5	8 0	35	23·5	25·31?	134	113
D	ST. JAMES'S PARK ... ... (+A)	H.M.O.W.(M.O.)	8	1 0	27	22·7	21·14	157	117
	ST. MARYLEBONE								
D	REGENT'S PARK...	H.M.O.W. (M.O.)	5	1 0	129	...	23·54	139	111
	HAMPSTEAD								
D	Kidderpore Reservoir	Met. Water Board	5	1 0	328	...	26·33	144	120
D	OBSERVATORY ... ... (+A)	Hampstead Scientific Society (E. L. Hawke, Esq., M.A.)	8	1 0	450	...	25·90	144	118
D	Golders Hill Park	London County Council ...	5	1 0	350	26·2	28·43	159	123
	ST. PANCRAS								
D	CAMDEN SQUARE ... ... (+A)	Royal Meteorological Soc.	5	1 0	110	24·5	23·48	145	115

§ Turf wall round gauge.

DIVISION I—LONDON—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	2.—THAMES. Left Bank Tributaries—(*contd.*).			*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	STOKE NEWINGTON									
D	New River Filter Beds		Met. Water Board	5	1	0 101	23·1	23·47	146	108
D	New River Res. (Lordship Rd.)	(+A)	Met. Water Board	5	1	0 105	23·5	23·47	141	112
	HACKNEY									
D	Clapton Pond	(+A)	Borough Engineer	5	1	0 68	22·8	24·14	141	112
	FINSBURY									
D	New River Head	(+A)	Met. Water Board	5	1	0 95	...	22·17	141	111
	BETHNAL GREEN									
d	Victoria Park		London County Council ...	5	1	0 43	23·1	24·72	...	101
	POPLAR									
D	Isle of Dogs (Island Gardens)... ...		London County Council ...	5	1	0 18	21·9	19·50	152	108
D	Old Ford Pumping Station		Met. Water Board	5	0	6 18	22·9	22·00	137	106
D	Old Ford (Penstock House)		London County Council ...	8	0	10 39	22·4	21·57	132	98
	WOOLWICH									
D	Barking Outfall		London County Council ...	5	0	10 24	20·8	23·84	145	101

DIVISION II—SOUTH-EASTERN COUNTIES

SURREY. (Area, 725 sq. mi.)

1.—ARUN. 45 sq. mi.

D	Chiddingfold (Chiddingfold House) ...		L. J. E. Hooper, Esq. ...	5	1	0 200	*31·0*	33·17	151	119
D	Godalming (Burgate)		Major J. Godman	5	1	1 320	...	31·36	144	118

2.—MEDWAY. 50 sq. mi.

D	East Grinstead (Lockeridge)		Lt. Col. J. F. Forbes, D.S.O.	5	1	0 320	*31·6*	33·08	143	121
D	Dormans Park (Chartham Park) ...		I. D. Margary, Esq. ...	5	1	0 270	*31·2*	32·89	168	117
D	Dormans Park (Hill Crest)		Dr. H. R. Mill	5	1	0 320	*32·1*	36·21	171	133
D	Dormans Park (Yew Lodge)		Mrs. I. D. Margary ...	5	1	0 260	*30·6*	33·07	158	118
D	Lingfield (Wembury Park)		C. W. Wheeler, Esq. ...	5	1	0 211	...	31·74	155	113
D	Lingfield (Sewage Works) ...	(+A)	Godstone R.D.C.*	5	1	0 155	...	29·50	150	113
	Edenbridge (Old East Haxted) ...		Capt. J. N. Knox, R.N. ...	5	2	0 197	...	29·30	...	...
D	Limpsfield (Red Lane Farm)		Capt. B. Crewdson ...	5	1	0 281	...	33·79	188	125
	Limpsfield (Kent Hatch Res.) ...		East Surrey Water Co. ...	5	1	0 664	...	34·92	...	...
D	Godstone (Ouborough)		C. J. Salter, Esq.	5	1	6 400	30·7	34·68	207	131

3.—THAMES. Darent. 22 sq. mi.

D	Westwood (Pumping Station) ...		East Surrey Water Co. ...	5	1	0 418	28·5	34·68	171	135
D	†Warlingham Park Hospital		Croydon Corporation ...	8	1	0 100	32·0	31·40?	150	119
D	Addington (Hares Bank Pump. Stn.)		Croydon Corporation ...	8	1	0 331	28·4	30·15	148	123
D	ADDINGTON HILLS RESERVOIR ...		Croydon Corporation ...	8	1	0 472	27·9	28·26	146	114
D	Addington (Golf Club)		Secretary	5	1	2 380	...	27·14	142	114

4.—THAMES. Wandle. 71 sq. mi.

D	Kingswood (Margery Hall Res.) ...		Sutton District Water Co.	5	1	0 691	30·2	32·94	169	132
	Woldingham Reservoir		East Surrey Water Co. ...	5	1	0 841	32·9	34·60	...	...
D	Caterham Reservoir		East Surrey Water Co. ...	5	1	0 704	32·5	34·46	176	135
D	Caterham (Alderstead Heath)...	(+A)	Coulsdon & Purley U.D.C.*	5	1	0 577	...	32·33	168	128
D	Chelsham & Woldingham W.W. ...		East Surrey Water Co. ...	5	1	0 478	32·5	34·14	161	128
D	Caterham (White Knobs Way) ...		Miss V. K. Isaac	5	1	0 500	...	34·77	167	125
D	Banstead (Burgh Heath Res.) ...		Sutton District Water Co.	5	1	0 582	30·8	28·63	154	121
D	Chipstead (How Green Res.)		Sutton District Water Co.	5	1	0 528	31·1	29·70	168	121
d	Coulsdon (The Vale)		H. E. W. Hollobone, Esq.	5	1	6 318	...	29·63	142	115
D	Kenley (Pumping Station)		East Surrey Water Co. ...	5	1	0 275	29·0	29·20	143	119
d	Coulsdon (Chaldon Way)		A. J. Horn, Esq.	5	1	1 400	...	28·73	152	113

† Formerly known as Farleigh (Croydon Mental Hosp.). * Per Surrey County Council.

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	SURREY—(*contd.*).			*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—THAMES. Wandle—(*contd.*).									
D	Coulsdon (Coulsdon Rise)		C. Knight, Esq.	5	0 6	350	30·4	29·29	155	113
D	Woodcote Park Golf Club	(+A)	Coulsdon & Purley U.D.C.*	5	1 0	450	...	27·27	160	122
D	Banstead Mental Hospital		J. Campbell, Esq.	5	4 8	410	...	26·47	147	115
D	Purley (Selcroft Road)		E. W. Finch, Esq.	5	1 0	400	28·7	27·42	152	116
D	Purley (Woodcote Valley Road)		C. Stuart Bailey, Esq.	5	1 0	310	29·5	28·09	153	115
D	Purley (Pumping Station)		East Surrey Water Co.	5	1 0	214	29·3	27·82	143	117
D	Sanderstead (Beechwood Road)		G. M. Davies, Esq.	5	1 0	320	...	28·66	159	114
D	CROYDON (Airport)	(+A)	Meteorological Office	5	1 0	217	26·7	25·55	146	111
D	Croydon (Croham Valley Road)		F. A. Reynolds, Esq.	5	1 0	350	...	29·16	152	115
D	Carshalton (Pumping Station)		Surveyor, U.D.C.	5	1 0	83	25·9	22·42	142	113
D	Beddington (Sewage Farm)		Croydon Corporation	5	1 0	129	24·5	20·71	147	109
D	Beddington Park	(+A)	Borough Council*	5	1 0	108	...	22·53	144	112
D	Croydon (Northampton Road)		Mrs. Higgins	5	1 0	210	26·9	23·98	138	114
d	Beddington Corner (Millgreen Rd.)		Messrs. G. Miller & Son	5	1 3	77	...	23·73	133	114
D	Thornton Heath (Grange Park Road)		A. R. Pearce, Esq.	5	1 0	287	...	25·26	158	112
D	Mitcham (London Road)	(+A)	Mitcham Borough Council*	5	0 11	62	...	21·57	144	110
D	Wimbledon (Durnsford Rd.)	(+A)	T. Webster, Esq., C.E.*	5	1 0	58	...	21·89	140	109
	5.—THAMES. Mole & c. 229 sq. mi.									
D	Horley (Langshott)		Dr. B. Jackson Taylor	5	1 6	180	...	30·43	142	125
D	Dorking (Bramerton)		Rev. James F. Twist	5	1 0	300	32·1	35·18	154	115
D	Dorking (Cliftonville)		E. W. Pollard, Esq., B.Sc.	8	1 6	300	...	33·75	151	111
D	Ranmore (Denbies)		Mr. S. C. Westbrook	5	1 0	620	...	36·08	167	116
D	Dorking (Pixham Lane S. Wks.)	(+A)	Dorking U.D.C.*	5	1 0	138	29·8	31·65	166	124
D	Earlswood (Sewage Farm)	(+A)	G. G. Sanderson, Esq., C.E.*	5	1 6	196	27·2	28·45	160	112
D	Redhill (London Road)		East Surrey Water Co.	5	1 0	270	28·4	29·92	170	122
D	Reigate (Wray Park Road)		W. J. MacAndrew, Esq.	5	1 0	330	29·8	30·80	167	120
D	Reigate (Castle Grounds)		G. G. Sanderson, Esq., C.E.	5	2 0	326	29·3	27·98	145	115
D	Bletchingley (South Park Farm)		Major U. H. Lambert	5	1 0	340	28·7	30·01	153	123
D	Merstham (Gatton Point)		C. F. Bull, Esq.	5	1 0	300	29·2	29·90	174	117
D	Headley Reservoir		East Surrey Water Co.	5	1 0	629	*32·0*	33·84	165	127
D	Merstham (Merstham Lodge)		J. F. E. Goad, Esq.	5	0 11	500	...	32·93	189	131
D	Headley (The Hurst)		Mrs. Lyall	5	1 0	420	30·6	31·31	172	133
d	Walton-on-the-Hill		Mr. H. W. Hawkes	5	1 0	600	30·4	31·22	...	125
D	Leatherhead (Elmer Softening Wks.)		East Surrey Water Co.	5	1 0	168	...	28·76	150	114
D	Tadworth		C. H. L. Blaxland, Esq.	5	1 4	600	*31·7*	30·40	159	132
D	Tadworth (Pumping Station)		Banstead U.D.C.	5	1 0	405	...	28·95	165	118
d	Ashtead (Park Lane)		G. R. Crompton, Esq.	8	1 0	318	...	27·27	...	...
D	Leatherhead (Sewage Works)	(+A)	F. J. Southam, Esq.*	5	1 0	104	...	26·20	150	119
D	Epsom (Downs Road)		T. N. Young, Esq., M.B.E.	5	1 0	400	...	27·43	156	118
D	Cobham (Towngate)		E. Boughton, Esq.	5	1 0	165	...	25·36	144	123
d	Epsom College		S. A. Weare, Esq.	8	1 0	300	26·9	25·58	...	...
D	Cobham (Sewage Works)		Esher U.D.C.	8	1 6	71	...	23·80	158	118
d	Banstead Grange		Mrs. Powell	5	0 10	390	...	28·97	148	128
D	Epsom (Sewage Farm)		Surveyor*	8	1 0	125	...	22·79	146	119
D	Epsom (Water Works)		T. N. Young, Esq., M.B.E.	5	1 0	150	...	25·37	148	114
D	Whiteley Village		Whiteley Homes Trust	8	3 4	195	24·3	22·98	162	115
D	Epsom (Long Grove House)		Dr. F. G. L. Barnes	5	1 0	130	...	23·30	155	116
	Claygate (Claygate House)		Mrs. F. Parkhurst	5	0 7	100	...	22·62	...	...
D	Claygate (Hertslets)		N. C. Armitage, Esq.	5	1 0	106	23·8	20·45?	161	110
D	Sutton (Waterworks)		Sutton District Water Co.	5	1 0	161	25·4	22·45	140	117
D	Sutton (Sewage Works)	(+A)	N. H. Michell, Esq., C.E.*	5	1 0	99	24·7	22·09	152	115
D	Epsom (Ruxley Lane S. Wks.)	(+A)	Surveyor*	5	1 6	76	...	22·75	150	117
D	Weybridge (Weyland S. Wks.)	(+A)	Walton&WeybridgeU.D.C.*	5	1 0	50	...	20·87	139	104
D	Esher (Sewage Works)		Esher U.D.C.	5	2 0	44	...	20·67	141	104

* Per Surrey County Council.

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	SURREY—(*contd.*).			*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—THAMES. Mole & c.—(*contd.*).									
D	Worcester Park (Sewage Wks.)	(+A)	N. H. Michell, Esq., C.E.*	5	1 0	68	24·4	22·89	147	113
D	Old Malden (Sports Ground)	(+A)	Malden & Coombe B.C.*	5	0 8	64	...	23·87	143	113
D	Morden Hall	(+A)	R. W. North, Esq., C.E.*	5	1 2	117	...	23·47	147	110
D	Surbiton (Seething Wells)		Met. Water Board	5	0 10	34	24·5	21·99	148	111
D	Surbiton (Sewage Disp. Wks.)	(+A)	Borough Engineer	5	1 0	51	...	20·93	150	101
D	West Molesey (Walton Works)		Met. Water Board	5	1 0	35	23·1	22·36	144	107
D	New Malden (Sewage Wks.)	(+A)	Malden & Coombe B.C.*	5	0 10	51	22·8	20·94	147	107
D	Wimbledon (Spencer Hill)		Norman S. Gardiner, Esq.	5	1 0	80	...	23·92	134	105
D	New Malden (High Drive)		Mrs. Ben. G. Brame	5	1 0	60	*24·1*	22·90	157	111
D	New Malden (Orchard Avenue)		A. C. Josling, Esq.	5	1 0	50	...	24·01	171	114
D	Kingston (Canbury Gardens)	(+A)	G. C. Stedman, Esq.,*	5	1 0	25	22·7	22·55	148	111
D	Merton Park (Mostyn Road)		A. T. Bench, Esq.	5	1 0	55	...	23·78	165	111
D	Merton Park (Innes Hort. Inst.)		Garden Superintendent	5	1 0	50	*23·6*	21·42	134	105
D	Merton (Joseph Hood Rec. Gd.)		R. W. North, Esq., C.E.	5	1 0	48	*23·5*	22·21	142	115
D	Raynes Park (Cottenham Park P.S.)		T. Webster, Esq., C.E.*	5	1 0	50	*23·8*	21·60	161	106
D	New Malden (Kingston Vale)	(+A)	Malden & Coombe B.C.*	5	1 1	47	...	23·27	148	116
D	Richmond (Terrace Gardens)		G. Humphreys. Esq.	5	1 3	29	*23·5*	22·77	144	113
D	East Sheen Cemetery	(+A)	Barnes Corporation*	5	0 10	88	...	21·74	140	110
D	KEW OBSERVATORY	(+A)	Meteorological Office	8	1 0	18	23·8	21·66	150	110
D	Kew (Royal Botanic Gardens)		Director	8	0 8	18	23·4	22·78	146	100
D	Barnes (Barn Elms)		Met. Water Board	5	1 0	16	22·9	20·47	140	109
	6.—THAMES. Wey. 236 sq. mi.									
D	Shottermill (Sewage Works)	(+A)	Surveyor*	5	1 7	381	*35·2*	35·38	179	122
D	Haslemere (Church Hill)		T. M. Shewell, Esq.	5	1 0	520	...	36·89	153	126
D	Hindhead Waterworks		Wey Valley Water Co.	5	1 0	839	*34·5*	37·80	176	127
D	Churt (Firdown)		W. E. Livock, Esq.	5	1 0	490	...	34·02	157	115
D	Hambledon (Chart Cottage)		M. Brodie Hoare, Esq.	5	1 0	300	...	30·89	141	120
D	Cranleigh (Lambswood)		Cranleigh Water Co.	5	0 10	300	...	33·29	150	125
D	Hascombe Place		C. T. Musgrave, Esq.	5	1 0	361	31·7	33·92	156	107
D	Hascombe Court		Sir John Jarvis, Bt., M.P.	5	1 0	420	*32·0*	32·49	157	122
D	Hascombe (Winkworth Hanger)		J. H. Wenham, Esq.	5	1 0	430	...	31·28	163	120
D	Witley (King George V Sanatorium)		Dr. J. Watt	5	1 0	305	*30·7*	32·50	144	120
D	Ewhurst (Woolpit)		L. J. E. Hooper, Esq.	5	1 0	600	*32·3*	35·32	162	127
D	Frensham (Spreakley Hollow)		A. R. Crossley, Esq.	5	1 0	200	*29·9*	32·11	146	115
D	Milford (Manor Wood)		G. S. Unwin, Esq.	5	1 0	180	...	27·30	142	114
d	Godalming (Munstead Heath)		Mrs. M. M. Hodsoll	5	1 0	550	*30·3*	30·24	...	117
D	Godalming (Ockford Pumping Stn.)		Engineer and Manager	8	1 0	152	...	29·40	142	114
d	Milford (Kennel Moor)		G. S. Sansom, Esq., D.Sc.	5	1 0	180	...	29·72	...	...
D	Godalming (Kingscote)		Rev. F. P. Synge	5	2 0	280	...	28·58	173	116
D	Godalming (Borough Road P.S.)		Engineer and Manager	8	1 0	120	*28·7*	28·00	156	116
D	Godalming (Chalk Road)		Rev. W. Havard-Jones	5	0 9	175	*28·6*	27·95	156	114
D	FARNHAM (ROWLEDGE)		A. Hampton Brown, Esq.	5	1 0	300	...	32·23	171	121
D	Tilford (Brownholm)		Mrs. H. G. King	5	1 0	275	...	29·11	148	120
D	Holmbury St. Mary (Feldemore)		Mr. W. E. Hobday	5	2 0	500	*32·0*	35·69	155	129
d	Shackleford (Hall Place)		F. F. Hill, Esq.	8	1 2	200	*28·0*	29·88	155	112
D	Peaslake (Southcots)		J. S. Moffat, Esq.	5	1 0	420	*33·1*	34·94	184	129
D	Bramley		W. H. Morgan, Esq.	5	1 3	132	...	29·11	160	118
D	Abinger Common (Furzen Wood)		Major E. J. Lugard, D.S.O.	5	1 0	555	*31·0*	31·67	171	120
D	Abinger Hall		Lord Farrer	8	1 6	300	...	31·87	155	106
D	Shere (Manor House)		R. A. Bray, Esq.	5	1 0	330	*30·3*	33·92	198	117
d	Shere (Rectory)		Rev. Sir P. M. Bowman, Bt.	5	1 3	200	30·5	32·64	126	110
D	Shalford (The Hutch)		Capt. G. C. Pentland	5	1 2	180	...	28·92	160	119
d	Farnham (Wrecclesham)		W. E. Sotheby, Esq.	8	1 0	360	...	30·49	...	121
D	Chilworth (Braunston)		E. Ramsay, Esq.	5	0 11	170	...	30·13	187	120

* Per Surrey County Council.

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	SURREY—(*contd.*).			*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	6.—THAMES. Wey—(*contd.*).									
d	Puttenham (Berthorpe)		Miss R. Tuckwell	5	1	0 350	*28·3*	28·56	126	112
d	Farnham (Beechwood)		Mrs. K. M. Lewis	5	1	0 250	...	28·93	146	112
D	Guildford (Avonmore Avenue)		E. T. Fulk, Esq.	5	1	0 184	...	27·22	150	118
d	Guildford (Boxgrove School)		Capt. V. H. Holroyd, F.R.G.S.	5	1	0 200	...	24·63	...	...
D	Guildford (Dunsdon Avenue)		P. R. Stuart, Esq.	5	1	3 174	...	27·07	153	122
D	Guildford (Joseph's Road)	(+A)	Borough Surveyor*	5	1	2 98	...	24·81	149	108
D	Guildford (Wood Street)		J. Taylor, Esq.	5	1	6 150	*27·0*	27·85	151	121
D	Guildford (Burpham)		V. B. Longhurst, Esq.	5	1	0 105	...	26·18	160	118
D	West Clandon		J. Dalrymple, Esq., C.E.	8	1	0 319	*28·5*	29·19	160	121
D	Worplesdon (Tangley Place)		E. J. W. Jeudwine, Esq.	5	1	10 150	*25·5*	25·91	149	116
	East Horsley (Ethandown)		Basil D. Tims, Esq.	5	0	9 280	...	29·06	...	...
D	Pirbright (Bakersgate)		The Hon. C. Lyle	5	0	9 120	...	25·78	146	125
D	Old Woking (The Gresham Press)		Unwin Bros. Ltd.	5	1	0 50	...	25·26	138	118
D	Woking (The Grange)		Miss M. E. Wilson	5	1	0 81	...	27·07	151	119
D	Woking (York Road)		L. C. Norris, Esq.	5	1	0 120	...	24·05	153	106
d	Old Woking (Sewage Works)		Woking U.D.C.	5	1	0 76	*24·9*	24·53	135	118
D	Woking (Council Office)	(+A)	Woking U.D.C.	5	1	0 132	...	25·01	146	109
D	Woking (Percy Street)		J. Dalrymple, Esq., C.E.	8	1	0 100	...	23·32	136	105
D	Woking (Goldsworth Road Depot)		Woking U.D.C.	5	1	0 96	*25·3*	25·21	144	112
D	Byfleet (Wisley R.H.S. Gdns.)		Director	8	1	0 150	*24·1*	24·11	146	112
D	Wisley (Outfall Works)		Woking U.D.C.	5	1	0 53	*24·5*	23·72	140	119
d	West Byfleet (Scotland Bridge)		Woking U.D.C.	5	1	0 67	...	23·34	...	109
D	Addlestone		W. V. Davies, Esq., C.E.	8	1	0 46	*24·0*	24·36	145	109
D	Weybridge (Oil Mills)		A. Whittet, Esq.	5	1	0 36	*23·7*	24·36	164	108
d	Walton-on-Thames W.W.		West Surrey Water Co.	5	1	4 33	*23·0*	24·51	142	117
	7.—THAMES. Bourne. 55 sq. mi.									
D	Chobham (West End)		F. A. Walter, Esq.	5	1	0 150	*25·8*	26·29	165	120
D	West Byfleet (N. Zealand Golf Club)		The Secretary	5	1	7 100	...	25·11	147	114
D	Bagshot		J. Waterer, Sons & Crisp, Ltd.	5	0	11 270	...	26·39	150	115
D	Windlesham (Windlesham House)		R.Adml.A.Cochrane, C.M.G.	5	1	0 200	*26·1*	27·91	162	120
d	Windlesham (Woodside)		A. R. F. Bosman, Esq.	5	0	11 250	...	24·30?	137	105
D	Weybridge (St. George's College)		Rev. C. K. Bryant	5	1	0 46	...	25·66	149	111
d	Chertsey (Long Cross)		Lord Brabazon of Tara	5	1	6 35	...	26·15	...	112
D	Chertsey		W. V. Davies, Esq., C.E.	8	1	0 42	*23·3*	25·85	169	110
D	Chertsey (Abbey Meads)		J. Dalrymple, Esq., C.E.	8	1	0 53	*23·0*	25·19	150	113
d	Egham (Englemede)		Major Ramsay Feilden	5	1	4 265	...	27·26	140	120
D	Egham (Waterworks)		S.W. Suburban Water Co.	5	1	0 54	...	25·47	148	108
d	Egham (Coopers Hill Training Coll.)		G. A. White, Esq.	5	1	0 275	...	23·89	133	107
	8.—THAMES. Loddon. 17 sq. mi.									
D	Frimley Pumping Station		Mid-Wessex Water Co.	5	1	0 213	...	25·68	147	115
D	Camberley (The Holt)		Sir Henry Scott-Smith	5	0	5 350	...	28·08	159	119
	KENT. (Area, 1,532 sq. mi.)									
	1.—ROTHER & C. 217 sq. mi.									
D	Dungeness (Lighthouse)		Chief Off'r R.N.Sig.Stn.(M.O.)	8	0	11 20	24·4	20·52	138	93
D	Rye (R.A.F. Station)	(+A)	Meteorological Office	5	1	0 12	...	22·97	151	105
D	Brookland (Poplar Hall)		Major J. R. Ainslie, B.Sc.	5	2	0 12	...	19~~38~~65	135	92
D	Wittersham (Mount Pleasant)		N. Lang-Smith, Esq.	8	1	0 200	...	25·23	163	114
D	Dymchurch (Slieve Truim)		D. Hamill Morton, Esq.	5	1	0 9	...	21·22	146	100
D	Kenardington (The Firs)		Cmdr. F. H. Lyon, D.S.O.	5	1	2 65	...	21·57	156	108
D	Tenterden (East Hill)		Urban District Council	5	0	8 179	...	22·01	150	110
D	Hythe		Borough Surveyor	5	1	3 15	*28·0*	24·09	129	101

* Per Surrey County Council.

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	KENT—(*contd.*).								
	1.—ROTHER & C.—(*contd.*).								
D	Hythe (Seabrook Road)	C. R. Lilburn, Esq....	5	1 6	0	...	22·35	159	104
D	Hythe (Sandling Park)	Major A. E. Hardy	8	1 0	260	...	25·72	142	111
D	Saltwood (Cylinder)	Miss M. Lethbridge	5	1 0	230	...	24·91	146	111
D	FOLKESTONE (The Leas)	(+A) Borough Engineer	5	1 0	128	*28·6*	22·42	138	104
D	Folkestone (Cherry Garden)	Folkestone W.W. Co.	5	1 6	230	*29·1*	26·26	156	118
D	Alkham (Lower Standen)	Folkestone W.W. Co.	5	1 0	250	...	27·25	146	114
D	Dover (Waterloo Crescent)	Borough Engineer	5	1 0	19	...	23·38	134	111
D	Dover (Buckland)	Guy Mannering, Esq.	8	1 6	50	...	26·96	132	109
	2.—STOUR & C. 386 sq. mi.								
D	LYMPNE (Airport)	(+A) Meteorological Office	5	1 0	346	28·5	23·40	143	105
D	Lyminge (Elham Valley W.W.)	Philip Harris, Esq.	5	1 6	445	...	27·97	143	120
D	Elham (Ottinge)	S. G. Holmans, Esq.	5	1 9	300	...	29·14	133	114
D	Ashford (Gas Works)	L. G. Kimmins, Esq.	5	0 11	125	...	23·45	139	107
D	Ashford	Messrs. Headley Bros.	5	1 0	190	...	24·91	168	110
D	Ashford (Albert Road)	A. E. Brounger, Esq.	5	1 0	185	...	23·63	156	104
D	Ashford (Belmore)	J. W. Kennard, Esq.	5	1 0	200	...	23·41	141	111
D	Dover (Martin Mill Pump. Station)	W. A. Parker, Esq.	5	1 0	287	...	27·12	141	111
D	WYE (Agricultural College)	S. E. Agric. College	5	1 0	164	...	27·99	131	108
D	Waldershare Rectory	Rev. H. Saumarez Smith	5	1 0	275	...	29·49	155	102
D	Waldershare Park Gardens	Mr. J. Beer	8	1 0	250	*33·2*	30·20	157	121
D	Charing Pumping Station	W. A. Parker, Esq....	5	1 0	295	...	23·11	136	107
D	Charing (Pett Place)	J. E. Hosking, Esq....	5	1 0	300	...	25·85	136	102
D	Barham (Old House)	L. S. Osmaston, Esq.	5	0 9	175	...	26·04	147	109
D	Barham Pumping Station	W. A. Parker, Esq.	5	1 0	173	...	26·93	136	109
D	Nonington (Red Tiles)	C. G. W. Lewis, Esq.	5	1 0	140	...	24·08	140	112
D	Worth (Betteshanger Colliery)	National Coal Board	5	1 0	5	...	25·76?	129	101
D	Worth (Upton House)	Capt. W. Elwin Napier	5	1 0	32	*27·7*	23·46	129	105
D	Wingham (Margate W.W.)	The Superintendent	5	1 0	138	*28·7*	23·27	152	107
D	Chilham (Lower Ensden)	F. Ivo Neame, Esq.	5	5 0	305	...	27·13	132	105
D	Canterbury (Harbledown)	W. Norris, Esq.	5	1 0	155	...	20·15	123	97
D	Canterbury (London Road)	Miss B. Spillett	5	1 0	66	*28·7*	20·66	135	106
D	Canterbury (Sewage Works)	Manager	5	1 6	15	*27·5*	22·41	142	103
D	ELMTONE (Court Farm)	J. B. Henderson, Esq.	5	1 0	28	...	20·61	133	101
D	RAMSGATE (East Cliff)	Borough Engineer	8	1 0	80	...	19·51	126	97
D	MANSTON (Airfield)	(+A) Meteorological Office	8	1 0	154	...	18·48	133	99
D	Broadstairs (Grange Road)	C. Saunders, Esq.	5	1 0	159	...	18·77	133	93
D	Broadstairs (Pierremont Park)	Surveyor	5	1 9	127	23·7	21·92	154	106
D	MARGATE	Capt. J. E. Turner	5	1 0	51	22·8	17·34	116	98
	3.—SWALE & C. 167 sq. mi.								
D	Selling (Perry Cottage)	F. Ivo Neame, Esq.	5	1 5	320	...	26·27	142	106
D	Selling (Luton)	F. Ivo Neame, Esq.	5	4 9	300	*30·4*	24·29	127	111
D	Sittingbourne (Torry Hill)	D. Leigh Pemberton, Esq.	5	1 0	497	...	28·02	146	108
D	Newnham (Pumping Station)	W. A. Parker, Esq.	5	1 0	107	...	23·89	133	106
d	Faversham W.W.	Engineer and Manager	8	1 0	132	...	23·09	157	104
D	Ospringe (Queen Court)	Shepherd Neame Ltd.	8	1 3	50	...	23·67	...	...
D	Ospringe (Lorenden)	Messrs. G. W. Finn & Sons	5	1 6	175	...	22·57	130	113
D	Sittingbourne (Highsted W.W.)	Sittingbourne U.D.C.	5	1 7	138	...	25·34	152	105
D	Faversham (Sewage Disp. Works)	Engineer and Manager	8	1 0	22	...	21·77	157	100
D	Whitstable (Green Lees)	W. H. Wetherell, Esq.	5	1 0	125	...	21·28	155	104
d	Teynham (Newgardens)	Mrs. Honeyball	5	1 5	30	*24·5*	22·59	...	102
D	Milton Regis (Sewage Works)	Sittingbourne U.D.C.	5	0 8	8	...	19·40	130	99
D	WHITSTABLE (Westmeads Rec. Grd.)	Engineer to the U.D.C.	5	1 0	9	...	17·69	114	91
	Herne Bay (Waterworks)	J. Roberts, Esq.	5	1 0	125	*22·8*	17·82	...	...
D	HERNE BAY (St. Anne's Home)	Surveyor, U.D.C.	5	1 0	21	...	16·99	128	95
d	Eastchurch (Barnland)	A. Beal, Esq.	5	1 0	180	...	18·81	128	97

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	KENT—(*contd.*).		*in.*	*ft.*	*in.* *t.*	*in.*	*in.*		
	4. –MEDWAY. 506 sq. mi.								
D	GOUDHURST (Bedgebury Forest)	Forestry Commission	5	1	0 290	...	31·45	172	126
D	Goudhurst (Bedgebury Pk. Gdns.)	Mr. H. Arnold	5	1	0 280	...	31·06	148	124
D	Scotney Castle	E. W. Hussey, Esq.	5	2	0 200	...	28·87	146	108
D	Cranbrook (Little Glassenbury)	J. I. Stirling, Esq.	5	0	10 360	...	29·70	151	115
D	Lamberhurst (Bayham Abbey)	Mr. G. J. Miller	5	1	0 340	...	34·85	140	120
D	Goudhurst (Gore Court)	J. A. Druce, Esq.	5	1	0 197	*30·3*	28·05	155	115
D	TUNBRIDGE WELLS (Calverley Pk.)	Medical Officer of Health	5	1	0 351	...	30·32	152	121
D	Brenchley (The Warren)	C. Langer, Esq.	5	0	6 275	...	31·32	152	111
D	Speldhurst Rectory	Rev. Canon H. Mallinson	5	0	10 334	...	32·96	161	120
D	Pembury Waterworks	H. P. Bishop, Esq., C.E.	8	1	0 197	...	27·80	139	105
D	Edenbridge (Falconhurst)	Hon. Mr. Justice Talbot	5	1	6 375	30·7	32·71	154	110
D	Edenbridge (Stonewall Park)	Lt.-Col. E. R. Meade-Waldo	5	1	1 344	...	30·61	143	113
D	Edenbridge (Gilridge)	J. Mavrogordato, Esq.	5	1	0 400	...	33·04	171	119
D	Edenbridge (Hever Castle)	Mr. H. F. Horn	5	1	0 200	...	32·40	144	105
D	Penshurst Place	The Rt. Hon. Lord De L'Isle and Dudley, V.C.	5	1	6 120	...	29·82	172	115
D	Headcorn (Great Tong)	A. E. A. Day, Esq.	8	1	6 110	...	23·03	144	105
D	Hildenborough (Gailes)	E. E. Roper, Esq.	5	1	0 159	...	28·58	150	115
D	Hildenborough (Hollanden House)	C. H. Scott, Esq.	8	1	0 99	...	29·59	166	117
D	Hildenborough (Old School Cottage)	J. S. Roper, Esq.	5	1	0 270	...	28·31	150	109
D	East Peckham (Woodbine)	W. H. Pearson, Esq.	8	1	0 47	...	24·53	124	102
D	Lenham (Lenham Court)	Major W. T. Pitt	5	1	0 400	...	26·48	154	111
D	Langley (Rumwood Court)	Mr. H. Parsons	5	1	9 354	...	24·55	145	107
D	Lenham	D. F. Tysoe, Esq.	5	1	6 400	...	27·25	147	108
d	Sevenoaks (River Hill)	Major D. M. Rogers	5	1	0 500	30·0	29·39	133	114
D	Maidstone W.W. (Barming)	C. H. Harden, Esq., C.E.	5	1	4 247	...	25·81	141	110
D	Maidstone (Mill Street)	J. H. Hughes, Esq.	8	6	0 37	...	26·36	172	110
D	Bearstead (Thurnham P.S.)	W. A. Parker, Esq.	5	1	0 107	...	27·12	168	112
D	Maidstone (Brenchley Gardens)	J. H. Hughes, Esq.	5	0	9 49	...	25·88	129	104
D	WEST MALLING (Airfield) (+A)	Meteorological Office	5	1	0 309	...	26·18	158	112
D	EAST MALLING (Research Station)	Director	8	1	0 132	26·1	26·08	151	111
D	Maidstone (Allington Lock)	Mr. A. H. Reed	5	1	0 20	...	24·05	129	106
D	Aylesford (Forstal Pumping Stn.)	C. H. Harden, Esq., C.E.	5	1	4 20	...	26·03	150	106
D	Trottiscliffe Pumping Station	W. A. Parker, Esq.	5	1	8 250	...	26·89	134	112
D	Maidstone W.W. (Boxley)	C .H .Harden, Esq., C.E.	5	1	0 319	...	26·43	145	109
D	Hartlip (Malts Hill Pumping Stn.)	A. E. Watkins, Esq., B.Sc.	5	1	0 225	...	27·00	142	115
D	Chatham (Woolmans Wood)	A. E. Watkins, Esq., B.Sc.	5	3	0 470	...	25·29	124	104
D	Halling Pumping Station	W. A. Parker, Esq.	5	1	0 75	...	24·87	129	104
d	Chatham (Nashenden P.S.)	A. E. Watkins, Esq., B.Sc.	5	0	9 125	...	24·32	...	108
D	Chatham (Luton W.W.)	A. E. Watkins, Esq., B.Sc.	5	3	0 88	...	22·84	134	111
d	Cuxton (Pumping Station)	Cuxton Water Committee	5	1	0 87	...	26·40	...	...
D	Rainham (Motney Hill)	J. B. Harvey, Esq.	5	1	0 28	...	19·90	136	91
D	Strood Waterworks (+A)	City Surveyor	5	1	0 112	...	23·21	141	104
D	Frindsbury (Shornells)	F. J. Talbot, Esq.	5	1	3 50	...	22·91	158	103
D	Higham (Forge Lane)	E. N. M. Wadman, Esq.	5	0	10 200	...	25·27	155	107
	5.—THAMES. Darent & c. 256 sq. mi.								
d	Westerham Town	Met. Water Board	5	1	0 380	...	33·27	...	...
D	Westerham Hill Pumping Station	Met. Water Board	5	1	0 539	...	33·78	159	130
D§	Sundridge Pumping Station	Met. Water Board	5	1	0 270	...	31·68	146	118
d	Sevenoaks (Knole Park)	Head Gardener	5	1	0 500	...	33·15	...	...
d	Sevenoaks (Oak Lane)	E. H. Evans, Esq.	8	1	6 428	...	33·99	...	...
D§	Tatsfield (Betsoms Hill)	Met. Water Board	5	1	0 820	...	35·53	...	...
W	Seal (Oak Bank Reservoir)	E. H. Evans, Esq.	8	1	3 548	...	31·50	...	...
D	Sevenoaks (Cramptons Rd. P.S.)	E. H. Evans, Esq.	8	1	0 222	...	31·47	142	116
W	Seal (St. Lawrence Reservoir)	E. H. Evans, Esq.	8	1	3 665	...	31·09	...	...
d	Seal (Kemsing Pumping Station)	E. H. Evans, Esq.	5	1	3 292	...	31·77	...	...

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	KENT—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	5.—THAMES. Darent & c.—(*contd.*).								
D	Sevenoaks (Chevening Gardens)	Head Gardener	5	1 0	360	...	34·77	142	125
d	Knockholt (Kent Waterworks)	Met. Water Board	5	1 0	785	*29·9*	37·61	...	...
D	Biggin Hill (Airfield)	Meteorological Office	5	1 0	560	...	32·68	146	119
D	Downe (Down House)	Dr. O. J. R. Howarth, O.B.E.	5	1 1	560	...	34·71	148	125
d	Keston (Blackness Lane)	J. Boden, Esq.	5	1 0	439	...	31·72	...	...
D	Shoreham (Highfield)	Sir Herbert B. Cohen, Bart.	5	0 9	650	...	32·75	144	121
D	West Wickham (Pumping Station)	Met. Water Board	5	1 0	240	...	27·58	143	117
D	Eynsford Pumping Station	Met. Water Board	5	1 2	131	...	27·89	140	112
W	Farningham (Dunbrae)	Bertram Grey, Esq.	5	1 0	230	...	26·54	...	...
D	Orpington (Kent Waterworks)	Met. Water Board	5	0 7	220	...	26·82	156	114
D	Longfield (Hartley)	Hartley Water Committee	5	1 0	270	...	26·22	155	103
d	Crockenhill (Wested Farm)	A. T. Miller, Esq.	5	1 6	331	...	27·76	...	...
D	Orpington (Chislehurst Road)	J. S. Powell, Esq.	5	1 0	272	...	26·90	158	113
D	Cobham (Crossways)	Mrs. A. M. Marsh	5	3 0	320	...	26·12	161	116
d	Horton Kirby (Court Lodge)	W. Rogers, Esq.	5	1 9	30	...	22·58	...	...
D	Nurstead (Downs Road W.W.)	Gravesend & Milt'n W.W.Co.	8	1 0	164	...	26·15	144	108
d	Beckenham (Hayes Way)	G. H. Preston, Esq.	5	0 9	210	...	25·19	...	...
	Bromley (Sundridge Avenue)	Dr. H. Wynne Thomas	5	1 0	270	24·7	23·91	...	...
D	BROMLEY	Borough Engineer	5	1 0	213	24·2	24·48	139	114
D	Bromley (Bishops Avenue)	G. H. Franey, Esq.	8	1 0	190	...	25·88	149	116
D	Beckenham (Croydon Road) (+A)	Borough Engineer	8	1 0	110	...	25·18	152	116
D	Penge (Recreation Ground)	The Surveyor	5	1 1	122	24·6	25·31	143	127
D	Anerley (Oakfield Road)	Miss S. Stannard	5	1 5	180	...	23·13	150	105
D	Chislehurst (Hawkwood)	Miss M. C. Edlmann	5	1 0	300	...	25·32	134	119
D	Chislehurst (Scadbury Park)	Maj. J. Marsham-Townshend	5	1 0	240	24·6	24·81	146	111
D	Bromley (Henville Road)	W. M. Smith, Esq., M.B.E.	5	1 0	230	...	25·41	162	114
d	Southfleet (Hook Place Farm)	J. J. Barker, Esq.	5	1 0	100	...	21·78	...	...
D	WILMINGTON (Orchard Way)	L. H. Stone, Esq.	5	1 0	115	...	24·10	139	105
D	WILMINGTON (Glasshouse Dem. Stn.)	Kent Education Committee	5	1 0	212	...	23·80	139	112
D§	Southfleet (Kent Waterworks)	Met. Water Board	5	1 0	82	...	22·60	142	105
D	Wilmington (Kent Waterworks)	Met. Water Board	5	1 5	25	...	23·97	136	111
D	Stone (Stone House Hospital)	T. J. Phillips, Esq.	5	1 2	115	...	22·40	133	101
D	Bexleyheath (Danson Park)	Surveyor	5	1 0	164	...	22·02	140	106
D	Dartford (Sewage Works)	Resident Engineer	5	1 0	14	...	20·89	123	98
D	Erith (Sewage Works)	Erith U.D.C.	5	1 0	13	...	21·35	147	100
D	Higham Waterworks	Engineer and Manager	8	1 0	141	...	24·80	132	102
d	Erith (Crossness)	London County Council	5	1 8	26	20·8	19·67	114	90
	SUSSEX. (Area, 1,458 sq. mi.)								
	1.—LAVANT & C. 175 sq. mi.								
D	Sidlesham (Council School)	Headmaster	5	1 0	15	...	23·86	149	112
D	BOGNOR REGIS (Waterloo Square)	Town Clerk	8	1 0	24	25·9	26·17	132	114
D	Bognor Regis (Albert Road)	W. L. Guermonprez, Esq.	8	1 0	17	26·3	26·01	166	120
D	Merston (Abelands)	The Hon. Sybil Hood	5	0 9	24	28·8	26·40	154	114
D	Bosham (Cobnor)	Major S. W. P. Beale	5	0 10	12	27·7	29·29	162	112
D	THORNEY ISLAND	Meteorological Office	5	1 0	11	...	23·58	145	109
D	Chidham (Chidmere)	H. Ll. Baxendale, Esq.	5	1 0	14	27·0	26·01	141	114
D	Bosham (Council School)	The Headmaster	5	0 6	14	27·2	27·61	134	103
D	Chichester (Apuldram)	S. J. K. Eames, Esq.	5	0 10	14	27·9	26·31	141	110
D	Chichester (Kingsham Farm)	Director of Agriculture	5	1 0	35	29·0	26·04	127	109
D	Chichester (West Street)	Dr. W. Dick	5	4 0	40	28·3	28·61	146	107
D	Chichester (County Hall)	D. Farr, Esq,	5	1 0	40	29·1	27·32	150	108
D	Chichester (Pine Grove)	L. Evershed-Martin, Esq.	5	10 0	90	...	29·24	151	113

§ Turf wall round gauge.

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	SUSSEX—(*contd.*).			*in.*	*ft.*	*ft.*	*in.*	*in.*		
	1.—LAVANT & C.—(*contd.*).									
D	TANGMERE (Airfield)	(+A)	Meteorological Office ...	5	1	50	...	25·50	154	109
D	Arundel (West Walberton) ...	...	P. A. Bissett, Esq.	5	1	90	...	27·75	158	114
D	Chichester (Funtington Pumping Stn.)		A. N. Burgess, Esq. ...	5	1	112	...	29·57	147	120
D	Emsworth (Stansted Park) ...	...	Earl of Bessborough ...	5	1	140	...	32·19	167	123
d	West Dean Park	...	W. H. Lines, Esq.	5	1	190	36·4	38·10	...	135
D	Chilgrove House	...	C. F. W. Dimond, Esq. ...	5	1	266	35·0	39·68	165	132
D	Compton (Compton House) ...	...	Miss K. B. Langdale ...	5	1	263	36·6	40·39	157	138
	2.—ARUN. 285 sq. mi.									
D	LITTLEHAMPTON (Met. Station)	...	Clerk to the U.D.C. ...	5	1	19	26·2	26·22	130	113
D	Worthing (Ferring)	...	Dr. L. S. F. Woodhead, M.B.E.	5	1	26	...	29·32	187	131
D	Angmering (Elmhurst) ...	...	Miss M. Orme	5	0	44	...	30·33	168	124
D	Patching Farm	...	Michael Drewitt, Esq. ...	5	1	180	30·8	29·89	143	118
D	Arundel Castle	...	The Duke of Norfolk ...	5	1	106	31·3	28·22	142	119
D	Bury (Rover's Cottages) ...	...	C. P. Gates, Esq.	5	0	70	35·6	39·14	187	134
	Harting (Down Place)	...	R. G. Blackwell, Esq. ...	5	1	401	37·5	39·32	...	...
D	Storrington (Greyfriars) ...	...	Major J. R. Abbey ...	5	1	250	35·6	36·37	167	128
	Bignor	...	Major G. B. Hill	5	1	175	37·3	38·58	...	...
D	Pulborough (Parham)	...	C. Sherston, Esq.	5	1	98	33·6	34·66	184	122
D	Pulborough (Bignor Park) ...	...	Viscountess Mersey ...	5	1	75	...	38·53	156	125
D	Petworth (Barlavington Farm)	...	J. A. G. Bragg, Esq. ...	5	0	181	...	40·97	158	125
D	Pulborough (Codmore Hill) ...	...	Rev. C. Ash	5	1	165	32·0	34·05	175	142
D	Byworth (Edgehill)	...	W. H. Boniface, Esq. ...	5	1	100	...	36·15	158	121
D	Petworth Park Gardens ...	...	Lord Leconfield	5	1	250	33·1	33·00	143	105
D	Rogate (Fyning)	...	H. W. A. Bodkin, Esq. ...	5	1	230	31·2	35·79	166	118
	Rogate (Durford Wood) ...	...	Mrs. A. M. Kennion ...	5	0	400	34·9	39·56	...	...
D	Rogate (Old Copse)	...	Miss E. Barton	5	1	500	...	34·65	152	119
	Rogate (Fyning Combe) ...	...	J. Gore, Esq., C.V.O. ...	5	0	420	...	35·64	...	...
D	Kirdford (Hills Green) ...	...	L. Baker, Esq.	5	1	150	27·8	28·91	135	114
d	Petersfield (Durford Heath) ...	...	A. M. Cohen, Esq. ...	5	1	450	35·3	35·98	...	...
D	Liss (Clayton Court)	...	Head Gardener	5	1	480	35·2	39·42	179	126
D	Liss (Hill Brow)	...	F. W. Beckford, Esq. ...	5	1	500	35·8	38·99	180	129
D	Horsham (Whites Bridge) ...	...	N.W. Sussex Water Board	5	1	139	30·9	30·53	155	123
D	Lower Beeding (The Warren)	...	Miss Reed	5	0	430	31·6	38·13	158	127
D	Horsham (Tower Hill) ...	...	Mrs. C. Marsh	5	1	220	28·3	29·79	163	118
D	Horsham (Sewage Disposal Works)	...	C. G. Aktinson, Esq. ...	8	1	120	29·3	31·24	167	119
D	Horsham (Rushams Road) ...	...	A. H. Wickersham, Esq. ...	5	1	140	...	32·05	162	123
D	Horsham (Windyridge) ...	...	R. A. West, Esq.	5	1	260	...	30·56	157	118
D	Horsham (Wimblehurst) ...	...	Miss E. M. Allcard... ...	5	1	195	30·0	31·64	157	122
D	Rudgwick (Swaynes)	...	S. D. Secretan, Esq. ...	5	0	121	26·7	30·26	174	119
D	Rusper (The Nunnery) ...	...	Sir Cecil J.B.Hurst,G.C.M.G.	5	1	260	30·8	33·73	158	125
	3.—ADUR & C. 237 sq. mi.									
D	Rottingdean School	...	Mr. T. A. Sandalls ...	8	1	120	27·2	29·35	164	116
D	WORTHING (Beach House Pk.)	(+A)	Medical Officer of Health ...	8	1	25	27·5	25·23	154	115
D	Worthing (Offington Gardens)	...	G. R. Rudolf, Esq.... ...	8	1	250	...	28·23	158	118
d	Goring-by-Sea (Highdown Tower)	...	Col. F. C. Stern	5	0	100	...	25·74	...	...
D	Brighton (Ovingdean)	...	L. H. B. Woodhead, Esq. ...	8	1	161	...	29·36	162	107
D	Brighton (Old Steyne)	...	F. N. Green, Esq., C.E. ...	5	1	32	28·1	24·21	143	110
D	Hove	...	Medical Officer of Health ...	5	1	27	27·4	24·25	142	101
D	Southwick (Watling Road) ...	...	E. C. Smith, Esq.	5	1	10	...	28·65	151	114
D	Hove (Eaton Gardens) ...	...	G. St. Clair Feilden, Esq. ...	5	0	50	...	29·16	153	120
D	Hove (Goldstone Crescent) ...	...	Guy Michell, Esq.	5	0	150	...	30·00	146	129

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	SUSSEX—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—ADUR & C.—(*contd.*).								
D	Brighton W.W. (Goldstone Bottom)	F. N. Green, Esq., C.E.	8	1 0	142	...	29·20	165	124
D	Brighton W.W. (Lewes Road)	F. N. Green, Esq., C.E.	5	3 8	139	29·9	31·44	176	123
D	Brighton W.W. (Shoreham)	F. N. Green, Esq., C.E.	8	1 8	9	29·2	30·21	169	128
D	Brighton W.W. (Mile Oak)	F. N. Green, Esq., C.E.	8	1 0	166	...	30·32	162	126
D	Brighton W.W. (Race Hill Res.)	F. N. Green, Esq., C.E.	8	1 0	456	31·6	32·58	176	126
D§	Brighton W.W. (Balsdean Res.)	F. N. Green, Esq., C.E.	5	1 0	399	...	32·49	161	114
D	Brighton W.W. (Balsdean P.S.)	F. N. Green, Esq., C.E.	5	1 0	188	...	30·30	160	111
D	Falmer (Cold Dean)	R. Shanks, Esq.	5	1 6	100	...	37·49	162	133
D	Brighton W.W. (Falmer)	F. N. Green, Esq., C.E.	8	1 0	200	32·1	34·98	171	129
D	Findon (North End)	Mrs. B. H. Madge	5	1 0	211	...	34·79	176	129
D	Findon (Steep Lane)	T. G. Judge, Esq.	8	3 0	200	...	34·60	158	127
D	Patcham (Brighton W.W.)	F. N. Green, Esq., C.E.	5	1 0	205	31·8	31·11	165	123
D	Washington Pumping Station	N.W. Sussex Joint Water Bd.	5	1 0	167	...	33·68	151	121
D	Hassocks (Newtimber Place)	Countess Buxton	5	0 8	100	...	34·70	148	115
D	Hassocks (The Croft)	Miss M. J. Taylor	5	1 0	200	35·6	37·08	134	118
D	Hassocks (Hurst Wickham Rise)	A. Wigglesworth, Esq.	5	1 3	145	...	34·70	166	125
D	Henfield (Townmead)	Miss H. Dixon Brown	5	1 0	100	31·7	32·06	152	117
D	Hurstpierpoint (Brundall)	R. E. Toombs, Esq.	5	1 0	140	...	33·54	151	120
D	Partridge Green (Lloyt's Croft)	W. U. P. Morgan, Esq.	5	1 2	25	...	30·11	143	112
D	Partridge Green (Bulrushes)	S. Wood, Esq.	5	0 8	75	...	31·89	162	114
D	West Grinstead (Knepp Castle Gdns.)	Capt. W. R. Burrell	5	3 6	50	...	29·86	142	110
D	Coolham	C. E. Cleeves, Esq.	5	1 0	80	*29·6*	31·11	174	118
D	Horsham (Sedgewick Park)	Rt. Hon. Lord Rotherwick	5	1 0	280	...	30·20	158	118
D	Slinfold (Elmhurst Farm)	Elmhurst Fmg. & Trdg. Co.	5	0 10	200	29·7	31·85	169	127
	4.—OUSE. 224 sq. mi.								
D	Seaford (Newlands)	Capt. T. Manning, R.N.V.R.	5	1 0	150	28·6	26·31	139	106
D	SEAFORD	Surveyor	5	1 0	45	...	27·81	132	108
D	Newhaven (Poverty Bottom W.W.)	F. B. Lumsden, Esq.	8	2 6	48	28·8	26·83	156	116
D	Lewes W.W. (Kingston)	J. T. P. Johnston, Esq.	8	1 3	11	34·6	35·34	172	124
D	Chailey (Cornwell's Bank)	Arthur B. Boxall, Esq.	5	5 0	160	...	28·43	155	110
D	Uckfield (Lawrence House)	C. G. D. Hoare, Esq., M.A.	5	1 3	125	...	32·39	148	116
D	Piltdown (Ringwood)	Capt. Stanley Pott	5	1 3	120	...	29·62	145	114
D	Haywards Heath (Abbots Leigh)	C. Hales, Esq., J.P.	5	1 0	250	...	34·42	152	121
D	Haywards Heath (Paddockhall Rd.)	L. E. Hervey, Esq.	5	1 1	260	31·8	31·69	173	126
D	Fletching (Searles Estate Office)	Capt. A. Sanford	5	1 0	180	...	32·46	135	116
D	Lindfield (The Common)	Mrs. D. G. Robertson	5	1 5	180	32·7	33·86	138	122
D	Horsted Keynes (Holy Well P.S.)	W. H. Ashmole, Esq.	8	1 8	124	31·5	31·98	153	121
D	Horsted Keynes (Cinder Hill)	L. A. Wood, Esq.	8	1 0	300	...	33·77	164	119
D	Horsted Keynes (Birchgrove)	Miss Fyfe	5	1 0	400	31·4	35·21	178	123
D	Balcombe (Lullings)	Mrs. M. Holland	5	1 0	348	34·8	35·29	181	135
D	Balcombe (Waterworks)	W. H. Ashmole, Esq.	8	1 0	467	33·9	33·92	173	125
D	Balcombe (Highley Manor)	Mr. B. T. Brooks	8	1 6	420	34·2	36·62	189	125
D	Worth Priory	Rev. B. O. Brayden	5	1 0	480	33·2	32·90	161	114
	5.—CUCKMERE & C. 189 sq. mi.								
D	BEACHY HEAD (C. Guard Stn.)	Chief Officer (M.O.)	8	1 0	502	...	26·78	157	120
D	EASTBOURNE (Wilmington Square)	Medical Officer of Health	5	1 0	20	30·7	28·38	160	106
D	Eastbourne (Mayfield Place)	Miss M. A. Ash	8	1 0	50	...	30·28	170	117
D	Friston (Water Tower)	Eastbourne W.W.	5	1 0	389	...	30·77	170	119
D	Friston	Eastbourne W.W.	8	1 0	104	*30·8*	29·63	172	122
D	Jevington	Eastbourne W.W.	8	1 0	274	*31·7*	31·97	180	130
D	Litlington	Eastbourne W.W.	8	1 0	19	*30·5*	28·66	157	117

§ Turf wall round gauge.

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with .01 in. or more	Days with .04 in. or more
	SUSSEX—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	5.—CUCKMERE & C.—(*contd.*).								
D	Willingdon Sewage Farm	Hailsham R.D.C.	5	1	0 24	*32·3*	33·50	164	125
D	Pevensey Bay Pumping Station	Hailsham R.D.C.	5	1	0 7	*27·0*	28·96	158	114
D	HANKHAM	A. E. Moon, Esq.	5	1	0 68	...	29·97	166	113
D	BEXHILL (EGERTON PARK)	Bor. Council (H. J. Sargent)	8	1	0 12	26·3	23·43	144	110
D	HASTINGS (White Rock)	Town Clerk	5	1	0 149	28·7	23·43	154	104
D	St. Leonards (Filsham W.W.)	Water Engineer (Hastings)	5	1	0 37	27·3	23·87	148	105
D	Hailsham (Magham Down)	E. M. Bear, Esq.	5	1	0 90	28·4	28·91	156	114
D	Hellingly (East Sussex Ment. Hosp.)	Medical Superintendent	5	0	7 140	...	31·50	153	122
D	Hazards Green (Pumping Station)	Bexhill W.W.	5	1	7 74	26·0	24·13	167	104
D	Hastings (Newgate)	Water Engineer	8	1	0 243	27·5	23·89	147	102
D	Hastings (Halton Reservoir)	Water Engineer	5	1	0 294	28·6	24·15	141	104
D	Battle (Crowhurst Park)	Mrs. K. M. Batten	8	1	0 440	...	29·85	156	129
D	Cowbeech (Pumping Station)	Bexhill W.W.	5	1	7 100	...	27·74	145	106
D	Bodle St. (Bucksteep Manor) (+A)	Major G. P. Richardson	5	1	0 235	...	28·97	162	119
D	Horam (Coxlow)	Miss Harrison	5	1	0 260	29·7	28·80	170	114
D	Heathfield (Burchford Farm)	Mrs. D. Hook	5	1	0 358	...	29·35	167	121
d	Heathfield (Hailsham Road)	Heathfield Growers	5	1	0 450	...	31·26	136	116
	6.—ROTHER. 194 sq. mi.								
D	Icklesham	Rother & Jury's Gut C. Bd.	8	1	2 140	...	24·80	136	107
D	Hastings (Fairlight Reservoir)	Water Engineer	5	1	0 513	*29·3*	24·77	146	107
D	Brede Pumping Station	Water Engineer (Hastings)	5	1	0 26	28·3	26·37	147	111
D	Udimore (The Wick)	Major R. P. Mair	8	1	0 92	*28·9*	27·54	145	113
d	Rye (Rother House)	Rother & Jury's Gut C. Bd.	5	0	9 10	...	26·33	...	...
d	Playden (Scots Float)	A. Court, Esq.	5	0	10 16	...	21·59	...	104
D	Brightling Park	T. P. Tew, Esq.	5	1	0 545	34·1	34·26	176	133
D	Brightling (Bleak House)	T. W. C. Terry, Esq.	5	1	0 550	...	33·19	173	126
d	Robertsbridge (Darvell Hall San.)	Medical Superintendent	5	3	0 100	29·1	29·76	...	115
D	Peasmarsh (Woodside)	A. W. Rickards, Esq.	5	0	7 100	30·1	28·74	171	126
D	Burwash (Bateman's)	C. W. Parish, Esq.	5	1	0 50	...	32·35	163	119
D	Iden (Havencroft)	J. N. Baker, Esq.	5	0	10 134	...	25·46	143	121
D	Rye (Iden)	Admiral Sir Aubrey Smith	5	1	0 150	...	23·36	136	107
D	Hawkhurst (BODIAM)	A. Guiness Sons & Co., Ltd.	5	1	0 71	...	29·49	142	116
D	Northiam (Great Dixter)	Mrs. Lloyd	5	1	0 209	29·5	24·83	152	118
D	Burwash (Crowhurst Bridge)	Heathfield Dist. Water Co.	5	0	11 97	...	30·25	159	115
D	Mayfield (Cranesden)	Sir Frederick Godber	5	1	0 345	...	33·47	145	114
D	Ticehurst (Stonegate)	W. J. Wheeler, Esq.	5	1	0 230	32·6	31·73	178	126
	7.—MEDWAY. 117 sq. mi.								
D	Rotherfield (Horsegrove Farm)	F. W. Shaw, Esq.	5	1	0 528	35·3	36·92	169	134
D	Crowborough (Jarvis Brook)	Crowborough Water Co.	5	1	0 325	35·0	38·19	168	135
D	Crowborough (Harecomb)	J. Robertson, Esq.	5	1	0 680	34·8	35·42	169	140
D	Crowborough (The Beacon)	A. R. Allcroft, Esq.	5	1	0 796	36·7	39·36	154	147
D	Tunbridge Wells (Cousley Wood)	A. Wilkin, Esq.	5	1	0 415	...	28·25	172	120
D	Hartfield (Beechcroft)	Miss E. A. Foyster	5	1	0 370	34·5	36·27	208	120
D	West Hoathley (Duckyls)	Mrs. C. Moore	5	1	0 600	...	34·61	153	127
D	Forest Row (Park Road)	J. R. Coulthard, Esq.	5	3	0 300	...	37·33	129	112
D	Frant (Henley Gardens)	Col. Benskin	5	1	0 440	32·2	34·68	158	119
D	Frant (Eridge Castle)	Mr. G. A. Funnell	5	1	0 400	34·3	36·55	142	122
D	Crawley Down (Grange Hill)	Miss L. T. A. Buckley	5	0	10 450	32·7	37·72	198	121
	8.—THAMES. Mole. 27 sq. mi.								
D	Worth (Worth Lodge)	Miss M. C. Nix	5	1	0 340	31·6	33·13	181	125
D	Crawley (The Beeches)	M. Longley, Esq.	8	0	8 220	31·2	33·65	159	117
	9.—THAMES. Wey. 10 sq. mi.								

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	HAMPSHIRE. (Area 1,627 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—ISLE OF WIGHT. 150 sq. mi.								
D	St. Catherine's Point (C.G.Stn.)	Station Officer (M.O.)	8	0 8	150	*27·8*	26·65	151	122
D	Ventnor (St. Lawrence)	Fraser Parkes, Esq.	5	0 9	100	...	28·04	146	116
D	Ventnor (Royal National Hos.)	Medical Superintendent	5	1 0	60	28·9	29·40	160	123
D	Ventnor (Steephill Cove)	C. W. Lale, Esq.	5	1 0	8	...	27·60	167	123
D	Ventnor (Cemetery)	Surveyor	5	1 0	445	*29·5*	29·57	167	125
D	Shanklin (Pomona Road)	Town Surveyor	5	1 0	199	*32·7*	33·47	154	126
D	Shanklin	Clerk to the Council	5	1 0	180	...	33·59	159	125
D	Brighstone (Pitt Place)	Jan de Hartog, Esq.	5	1 8	200	*27·7*	28·82	145	111
D	Sandown (Sandham Gardens)	Town Clerk	5	1 0	13	*30·9*	27·19	149	113
D	Sandown (Adgestone)	P. J. Neville, Esq., C.E.	5	1 0	9	...	30·53	153	120
D	The Needles (Golf Club)	Mrs. Newnham	5	1 0	340	*27·5*	27·86	155	110
D	Freshwater (Pumping Station)	Engineer in Charge	8	1 3	5	*28·8*	28·36	157	117
D	Newport (Recreation Ground)	Engineer & Surveyor	5	1 0	60	*32·9*	29·10	145	115
D	Binstead (The Quarry)	F. H. Crimp, Esq.	5	2 0	60	...	30·19	140	112
D	Ryde (Esplanade Gardens)	Borough Engineer	5	1 0	13	*29·0*	28·60	141	111
D	Wootton (Bridge House)	Miss A. Brodie	8	1 3	12	...	30·53	141	112
D§	Cowes W.W. (Broadfields)	Engineer & Surveyor	5	1 0	161	*29·8*	30·35	147	121
D	Osborne	House Governor	5	1 0	177	*32·7*	35·39	181	130
	2.—STOUR. 37 sq. mi.								
D	Bournemouth (Vale View) (+A)	The Corp., A. C. Marsh, Esq.	5	1 0	139	31·5	28·04	158	118
D	Bournemouth (Rothesay Road)	Dr. D. N. Seth-Smith	5	0 8	180	...	31·37	173	124
D	Bournemouth (East Avenue)	J. E. Hewitt, Esq.	5	1 0	143	*28·6*	29·71	153	130
D	Christchurch (Hurn Court)	The Earl of Malmesbury	8	1 3	19	*32·2*	31·18	164	128
D	Ringwood (Athol Lodge)	Mrs. C. M. Robinson	5	1 0	60	*29·0*	32·94	201	126
	3.—EAST AVON & C. 114 sq. mi.								
D	Christchurch (Harrow Lodge)	R. C. Bacon, Esq.	8	1 0	135	*31·3*	31·58	167	125
D	Ringwood (Bisterne)	Major J. D. Mills	8	1 2	45	*30·9*	32·33	138	124
D	Ringwood (Crow Hill)	Mrs. H. F. Rawstorne	5	1 0	250	*30·2*	31·51	172	121
D	Ringwood (Hangersley)	Col. E. G. St. Aubyn, D.S.O.	5	0 9	200	...	30·66	167	123
D	Ringwood (Grey Friars)	Miss H. Christy	5	1 0	50	*28·4*	32·66	157	117
D	Ringwood (Linwood)	Miss R. M. Haines	5	0 9	138	*32·0*	34·84	178	123
D	Fordingbridge (Furze Hill)	G. G. Smith, Esq.	5	0 5	150	...	32·03	160	121
	4.—TEST & SOLENT. 551 sq. mi.								
D	Milford-on-Sea (Farlights)	Mrs. F. W. Brown	5	1 0	50	...	30·14	154	120
d	Lymington (Stanley Road)	E. A. Robins, Esq.	5	1 0	5	...	30·69	...	...
D	New Milton (Ashley County School)	Headmaster	5	0 8	98	*30·7*	27·59	150	111
D	Sway (Gordleton)	W. F. Wright, Esq.	5	1 6	102	*29·7*	31·94	164	125
D	Lymington	Borough Engineer	5	1 0	57	...	31·27	157	116
d	Boldre (Battramsley Close)	Mrs. Des Voeux	5	1 1	119	*31·8*	(32·03)	...	...
d	Exbury	L. N. de Rothschild, Esq.	5	1 0	80	*29·2*	30·66	...	120
D	Calshot (Airfield) (+A)	Meteorological Office	8	1 0	8	...	26·05	151	115
D	Burley (Sandys)	G. Mason, Esq.	5	1 0	150	*31·8*	32·33	151	125
D	Hythe (Butts Ash Lane)	Miss J. M. Baker	5	1 0	130	*30·6*	34·59	164	124
D	Hythe (Lawn Cottage)	D. Stewart, Esq.	5	1 1	105	...	34·04	156	126
D	Lyndhurst (Laurel Cottage)	G. D. Rouse, Esq.	5	1 0	120	...	35·17	167	125
D	Cadnam (Skers Farm)	Lt. Col. J. W. Jeffreys, D.S.O.	5	1 0	190	*31·8*	34·29	164	123
d	Bartley (The Nurseries)	C. G. Haysom, Esq.	5	1 0	100	*32·0*	34·79	...	117
D	Southampton (East Park)	Director, Ordnance Survey	5	1 0	64	30·9	31·76	160	113
D	Southampton (Regents Park)	D. J. P. Kendall, Esq.	5	1 0	60	...	31·10	158	118
d	Southampton (South Hill Reservoir)	J. Hawksley, Esq., O.B.E.	5	1 0	200	30·8	28·89	...	...
D	Romsey (Embley Gardens)	J. J. Crosfield, Esq.	5	1 0	130	*30·3*	32·49	150	120
D	Romsey (Timsbury P.S.)	J. Hawksley, Esq., O.B.E.	5	1 0	99	29·8	32·05	139	109

§ Turf wall round gauge.

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	HAMPSHIRE—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	4.—TEST & SOLENT—(*contd.*).								
D	Hursley (Merdon Manor)	Sir George Cooper, Bt.	5	1	0 360	...	33·27	163	121
D	Sparsholt (Garstons)	Mrs. Simpson	5	1	3 350	...	35·23	147	117
D	Stockbridge (Houghton Lodge)	Col. R. C. O. Parker, O.B.E., T.D.	5	1	0 112	*30·5*	31·53	153	116
d	Crawley (Chilbolton Down)	G. W. S. Beale, Esq.	8	1	2 350	*31·0*	35·18	...	117
D	Stockbridge (LECKFORD Estate)	Managing Director	5	1	0 385	...	33·43	156	115
D	Sutton Scotney (Wonston Manor)	J. H. Gray, Esq.	5	1	0 233	...	32·93	151	124
D	Andover (Sewage Works)	Borough Surveyor	8	0	8 180	*28·9*	30·44	145	117
D	Andover (Waterworks)	Borough Surveyor	8	1	0 205	...	30·33	153	114
d	Whitchurch (Laverstoke Mills)	Dr.J.Knaggs,A.R.C.S.,F.I.C.	8	1	10 250	...	35·68	163	120
D	St. Mary Bourne (Bournside)	Mrs. H. F. M. Boys	5	1	1 300	*29·4*	33·32	170	116
D	Worting (Manydown Park)	Col. A. S. Bates, D.S.O.	5	1	0 415	*30·2*	33·85	169	123
D	Whitchurch (Dunley Manor)	Sir Alfred Herbert	5	1	0 500	*30·8*	33·09	158	128
D	Linkenholt Manor	R. Dudley, Esq.	5	1	0 700	*32·5*	40·41	161	135
	5.—ITCHEN & SPITHEAD. 422 sq. mi.								
D	Alverstoke (Monckton House)	Major J. Blake	5	1	3 15	*28·6*	27·84	150	106
D	South Hayling (Loridge)	D. S. Bird, Esq.	5	0	10 10	...	26·33	134	108
D	Gosport	Borough Surveyor	8	0	9 30	*28·8*	28·29	153	101
D	PORTSMOUTH (Southsea Common)	Medical Officer of Health	5	1	0 7	27·7	25·95	136	106
D	Portsmouth (Eastney)	City Engineer	8	1	0 12	*25·3*	23·64	135	100
D	Farlington (Pumping Station)	Portsmouth Water Co.	5	1	0 78	*28·5*	27·68	155	112
D	Farlington (Reservoirs)	Portsmouth Water Co.	5	1	0 117	...	28·66	157	113
D	Farlington (Filter Works)	Portsmouth Water Co.	5	1	0 157	*27·9*	26·91	151	111
D	Havant (Portsmouth W.W.)	Portsmouth Water Co.	5	1	0 25	*27·2*	27·53	146	113
D	Fareham (West Street)	N. E. Neville, Esq.	5	1	0 41	...	28·55	160	118
D	Fareham (Maindell W.W.)	Engineer & Surveyor	8	1	6 36	...	30·58	185	127
	Southwick (Pinsley Lodge)	Portsmouth Water Co.	5	1	0 150	*29·6*	29·35	...	...
D	Woolston Depot	Boro. Engnr., Southampton	5	5	8 13	*30·0*	30·84	132	108
	Idsworth (Water Tower)	Portsmouth Water Co.	5	1	0 202	*31·0*	33·81	...	...
	Southwick (Upper Beckford Farm)	Portsmouth Water Co.	5	1	0 112	*30·8*	31·98	...	...
D	Southampton (Portswood)	Boro. Engnr., Southampton	5	1	10 10	*29·7*	29·37	147	111
	Botley (Uplands Farm)	Wilmot H. Yates, Esq.	5	1	0 60	*31·5*	30·24	145	116
D	Curdridge (Sunnyside)	W. S. J. Cooke, Esq.	5	1	0 95	*30·7*	33·45	175	123
	Catherington Reservoir	Portsmouth Water Co.	5	1	0 428	*34·2*	38·22	...	...
D	Swanmore (Holywell House)	Mrs. M. Portal	5	1	6 180	*32·2*	34·63	160	126
	Hambledon (Whitedale)	Portsmouth Water Co.	5	1	0 223	*34·0*	35·70	...	...
D	Soberton (Mislingford)	Gosport W.W. Co.	5	1	0 136	*31·7*	32·10	157	123
D	West End (Oaklands)	Mrs. Pearson	5	1	0 45	*30·9*	31·85	139	122
D	Droxford (Upper Swanmore)	H. Gadsby, Esq.	5	1	0 312	...	34·58	154	122
d	Petersfield (Ditcham Park)	Portsmouth Water Co.	5	1	0 555	...	36·13	...	...
D	Otterbourne (Kingfisher Lodge)	Major T. T. Phelps	5	0	10 80	...	33·27	162	122
D	Otterbourne W.W.	J. Hawksley, Esq., O.B.E.	5	1	0 113	30·7	31·32	199	124
D	Twyford (Pumping Station)	J. Hawksley, Esq., O.B.E.	5	1	0 139	31·1	34·70	166	117
D	Compton (Cross Ash)	J. Durst, Esq.	5	1	1 250	*30·4*	34·24	163	120
D	Winchester (St. Cross)	G. M. Mathews, Esq., C.B.E.	5	1	0 135	*30·7*	34·48	152	118
D	Winchester (Recreation Ground)	Medical Officer of Health	5	1	0 121	...	34·84	149	123
D	Winchester (Beaconsfield House)	F. B. Heathcote Wride, Esq.	8	1	0 228	...	37·68	220	123
D	Ovington Rectory	Rev. H. L. Atkins	5	1	0 221	33·2	42·74	172	126
D	Bishop's Sutton	H. C. Mills, Esq.	5	1	0 260	...	37·25	158	123
D	Itchen Abbas (Chilland)	W. J. Arnold, Esq.	5	1	3 200	*30·5*	35·55	166	121
D	Itchen Abbas (The Down House)	Mrs. Savile	8	1	0 200	...	33·05	144	115
D	Ellisfield Manor	H. Hoare, Esq.	5	1	0 635	...	39·64	186	131
	6.—ARUN. 82 sq. mi.								
d	Liss (Kippences)	Rev. W. L. de B. Thorold	5	0	9 250	*33·3*	40·04	...	115
D	Liss (Hawkley Hurst)	T. Clive Davies, Esq.	5	0	11 422	*37·7*	39·41	179	130
	Greatham (Manor House)	Capt. A. F. Coryton	5	1	0 260	32·5	35·52	...	...

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	HAMPSHIRE—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	7.—THAMES. Wey. 92 sq. mi.								
D	Petersfield (Stoner Hill) ... (+A)	C. J. P. Cave, Esq., J.P. ...	5	1 0	748	38·1	42·05	185	134
D	East Tisted (Rotherfield Park) ...	Col. J. B. Scott	5	1 0	555	*37·1*	41·73	169	135
D	Selborne (The Wakes)	Mrs. Bibby	5	1 0	400	35·3	41·88	179	139
D	Alton (Treloar Cripples Hospital) ...	Secretary	5	1 6	350	...	36·26	168	124
D	Kingsley (Sleaford)	M. Nimmo, Esq.	5	1 0	220	...	32·41	163	119
D	Alton (Waterworks)	Engineer and Surveyor ...	5	1 0	455	...	35·23	155	125
	8.—THAMES. Loddon. 164 sq. mi.								
W	Swaineshill	Mid-Wessex Water Co. ...	5	1 7	550	*30·5*	35·82	...	...
d	LONG SUTTON	Lord Wandsworth College	5	1 0	479	*28·2*	33·84	...	120
D	Basingstoke (Upton Grey House) ...	G. Weisweiller, Esq. ...	5	1 0	400	*27·7*	32·72	147	120
D	Aldershot Waterworks	Mid Southern Utility Co. ...	5	1 0	251	*27·0*	29·09	154	123
D	Aldershot Reservoirs	Mid Southern Utility Co. ...	5	1 0	393	*27·2*	28·94	152	122
D	Aldershot Gas Works	B. S. G. Morley, Esq. ...	5	1 0	230	...	29·31	151	116
D	Odiham (Mill House)	W. M. Dean, Esq.	5	3 0	241	*26·0*	28·26	147	112
D	Odiham (Sewage Works)	Hartley Wintney R.D.C. ...	5	1 0	240	*26·5*	28·23	134	113
D	Greywell Pumping Station	Mid-Wessex Water Co. ...	5	1 0	263	*26·3*	31·26	152	120
D	Hook (Nately Hatch)	R. C. Mallock, Esq. ...	5	1 0	328	*26·7*	32·38	171	118
D	Fleet (Home Wood)	Mrs. L. M. Kent	5	1 0	300	*25·4*	25·26	144	114
D	Sherborne St. John	A. G. Willis, Esq.	5	2 2	260	29·0	31·81	159	131
D	Hartley Wintney (Warren Heath) ...	Hartley Wintney R.D.C. ...	5	1 0	226	*25·8*	27·98	142	114
D	Hartley Wintney (S.D. Works) ...	Hartley Wintney R.D.C. ...	5	1 0	180	...	28·83	138	114
D	SOUTH FARNBOROUGH (R.A.E.) (+A)	Meteorological Office ...	8	1 0	226	26·1	24·77	143	110
D	Winchfield (Elvetham Park)	Mr. T. J. Brownjohn ...	8	1 0	217	*26·8*	28·52	153	118
D	BRAMLEY (Ordnance Depot)	Deputy Commander, R.E.	5	1 0	196	...	30·84	155	126
D	Heckfield (Park Corner)	Mr. W. Smith	5	1 2	257	24·6	27·75	195	121
	9.—THAMES. Kennet. 65 sq. mi.								
D	Kingsclere (Isle Hill)	C. E. Harvard, Esq. ...	5	1 6	500	...	36·36	176	133
D	Kingsclere (N. Sydmonton House) ...	Lt.-Col. Kingsmill, D.S.O.	5	1 2	350	...	30·82	148	113
D	Silchester House	T. M. Hartley, Esq. ...	5	1 0	305	*25·0*	28·62	139	111
	BERKSHIRE. (Area, 722 sq. mi.)								
	1.—TEST. 2 sq. mi.								
	2.—THAMES. Bourne. 15 sq. mi.								
D	Sunninghill (Blacknest P.S.)	Surveyor Windsor R.D.C.	8	1 0	130	26·0	25·78	172	120
D	Sunninghill (Titness Farm)	Lt.-Col. J. N. Horlick, M.C.	5	1 0	220	27·0	25·74	158	113
	3.—THAMES. Loddon & c. 162 sq. mi.								
D	Beech Hill (Waveney)	Miss D. Page-Roberts ...	5	1 0	220	...	24·52	147	113
d	Broadmoor Asylum	Medical Superintendent ...	5	1 0	300	27·6	26·21	...	115
D	Wokingham (Bucks Copse)	Borough Surveyor	5	1 0	174	24·7	22·42	146	112
d	Wokingham (Bear Wood Gardens) ...	Head Gardener	8	1 0	200	...	23·61	...	...
D	Wokingham (Sindlesham House) ...	Mr. W. Balcombe	5	4 0	200	25·4	26·31	136	113
D	Wokingham, (Reading Road)... ...	P. Chandler, Esq.	5	1 0	182	...	25·52	152	117
D	Wokingham (Winnersh Nursery) ...	W. Bates, Esq.	5	1 0	180	...	24·52	151	116
D	Winkfield (Maidens Green)	R. Crosbie-Hill, Esq. ...	5	1 0	210	26·0	25·56	158	112
D	READING (SEED TRIAL GROUNDS) ...	A. F. Sutton, Esq.	5	1 0	141	...	22·65	150	105
D	Windsor (Forest Park Gardens) ...	A. G. W. Briars, Esq. ...	5	0 10	150	...	26·59	141	125
d	Twyford (Beenham's Heath)	Mid-Wessex Water Co. ...	5	1 0	136	...	24·35	...	107
D	Windsor (Bolton Road)	B. B. Summers, Esq. ...	5	1 0	80	...	24·60	146	111
D	Windsor (Royal Gardens)	Mr. G. Simpson	5	1 1	88	24·9	24·59	146	118
D	Windsor (Clarence Crescent)	H. I. Bond, Esq.	5	1 0	60	...	24·69	150	107
D	Twyford (Hare Hatch)	J. Waterer, Sons & Crisp, Ltd.	5	1 0	180	...	28·04	171	123
D	Maidenhead (Shopperhangers Rd.) ...	G. Stow, Esq.	5	1 6	180	...	24·70	151	117

DIVISION II—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	BERKSHIRE—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	3.—THAMES. Loddon & c.—(*contd.*).								
D	Maidenhead (Sewage Wks.)	(+A) Borough Engineer	5'	1	0 81	...	24·73	159	117
	Pinkney's Green	R. P. Lord, Esq.	5	0	10 240	26·7	26·78	...	...
D	Maidenhead (Boulter's Lock)	Thames Conservancy	5	1	6 82	...	25·85	177	121
D	Hambledon Lock	Mr. T. E. Wise	5	2	0 105	27·0	29·48	189	122
	4.—THAMES. Kennet & c. 224 sq. mi.								
D	Inkpen (New Mill)	G. C. Goodhart, Esq.	5	1	5 485	32·5	37·48	180	125
D	Newbury (Greenham Common)	A. A. Lawrence, Esq.	5	1	5 500	...	34·40	149	123
D	Mortimer (Grazeley Green)	P. L. D'E. Skipwith, Esq.	5	1	0 200	26·1	24·83	136	109
D	Hungerford Park	Mrs. A. G. Turner	5	0	10 400	...	31·53	147	128
D	Newbury (Gloucester Road)	L. Giles, Esq.	5	2	0 250	...	31·81	155	121
D	SHINFIELD (University Hort. Farm)	Prof. R. H. Stoughton, D.S.C.	5	1	0 200	...	26·36	151	114
D	Bucklebury Place	P. C. Bicknell, Esq.	5	1	0 409	...	29·88	157	122
D	Reading W.W. (Bath Road)	O. Kean, Esq., C.E.	5	1	0 217	24·4	24·69	164	112
	Reading (Tilehurst)	Miss M. W. Latham	5	1	0 200	25·6	30·01	158	104
D	Reading (Forbury Gardens)	K. H. Thorpe, Esq.	5	1	8 143	24·9	27·42	152	113
D	READING (University)	Prof. A. Austin-Miller	5	1	0 152	...	25·10	149	113
D	Reading (Caversham Lock)	Thames Conservancy	5	1	0 123	...	24·91	147	111
D	Caversham (St. Peter's Hill)	J. A. Sargent, Esq.	5	1	4 140	25·0	26·74	141	110
D	Chievely (Priors Court)	Mr. S. F. Tuffley	5	1	0 403	...	31·57	162	120
D	Peasemore House	Mrs. E. Brown	5	1	6 400	...	29·37	145	119
	5.—THAMES. Ock & c. 319 sq. mi.								
D	Stanford Dingley (Dingley Hill)	C. O. Lowsley, Esq.	5	1	3 400	...	30·45	155	122
D	Reading (Englefield)	H. A. Benyon, Esq.	5	1	0 175	27·4	29·08	156	127
D	Bradfield Pumping Station	Mid-Wessex Water Co.	5	1	0 174	...	27·57	143	111
D	Yattendon (Yattendon Court)	J. E. N. Grange	8	2	4 360	...	30·08	143	117
D	Pangbourne (Woodberry)	W. H. Keep, Esq.	5	1	0 220	...	30·78	173	125
D	Moulsford (The Old Vicarage)	E. R. Abbott, Esq.	8	1	3 170	...	30·67	164	120
d	Wantage (Lockinge Estate Office)	Capt. J. H. Lane Fox	5	1	1 400	27·8	33·18	...	117
D	Wallingford (Winterbrook)	Frank K. Weedon, Esq.	5	1	0 151	24·9	28·53	153	119
D	Wallingford (Style Acre)	A. L. Morphew, Esq.	5	1	4 200	25·2	26·86	162	128
D	Didcot (Sewage Works)	Wallingford R.D.C.	5	0	9 170	...	28·11	171	120
D	Faringdon (Shellingford House)	Mrs. K. Marshall	5	...	... 275	...	28·08	168	130
	Long Wittenham (The Manor House)	C. E. M. Judge, Esq., O.B.E.	12	0	9 170	25·3	26·79	...	...
D	Abingdon (The Firs)	Miss M. R. Challenor	5	1	3 180	23·7	24·28	149	110
D	Abingdon (Christ's Hospital)	W. T. Morland, Esq.	5	1	0 190	...	26·61	155	126
D	Abingdon (Frilford Heath)	R. W. Langford, Esq.	5	1	0 240	...	27·39	158	115
D	ABINGDON	(+A) Meteorological Office	5	1	0 210	...	25·35	155	113
D	Abingdon (Sandford Lane, S.W.)	W. J. Lee, Esq.	8	1	5 220	...	28·17	165	117
D	Boars Hill (Blackthorn)	A. C. Pilkington, Esq.	5	1	0 410	25·6	28·27	179	124
D	Oxford (Kennington Nursery)	Forestry Commission	5	1	0 350	24·7	28·95	160	119
D	Eynsham (Swinford P.S.)	H. H. Crawley, Esq., C.E.	5	1	0 203	...	28·44	154	114

DIVISION III—SOUTH MIDLAND COUNTIES

	MIDDLESEX. (Area 232 sq. mi.)								
	1.—THAMES. Colne & Brent. 185 sq. mi.								
D	Weybridge (Shepperton Lock)	Thames Conservancy	5	1	0 41	23·1	25·50	148	117
D	Sunbury (Riverdale)	Mrs. R. I. Wolferston	5	1	0 30	...	23·83	137	114
D	Littleton (Queen Mary Res.)	Met. Water Board	5	1	0 44	23·0	26·31	151	116
D	Hampton Waterworks (*new g.*)	Met. Water Board	5	1	0 45	22·7	21·30	150	107
D	Kempton Waterworks	Met. Water Board	5	1	0 40	22·6	21·31	134	103
D	Hampton (Refuse Disp. Works)	L. G. Hamlin, Esq.	5	1	1 60	...	23·49	145	124
D	Staines (Pumping Station)	Met. Water Board	5	1	0 55	...	24·34	126	104

DIVISION III—SOUTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	MIDDLESEX—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	1.—THAMES. Colne & Brent—(*contd.*).								
D	Staines Reservoir (West Side)	Met. Water Board	5	1 0	53	23·8	25·35	126	106
D	Isleworth (Mogden Wks.) (+A)	C. B. Townend, Esq., C.E.	5	1 0	33	...	21·28	145	109
D	Longford (Perry Oaks Disp. Wks.)	C. B. Townend, Esq., C.E.	5	1 0	77	...	25·08	153	109
D	Hounslow (Pawnall Gardens)	P. W. Miller, Esq.	5	2 0	70	...	22·93	157	112
D	Hounslow (Berkeley Avenue)	J. E. Cacutt, Esq.	5	1 0	80	...	23·20	152	112
D	Feltham (London Airport) (+A)	Meteorological Office	5	1 0	80	...	22·15	150	106
D	Sipson (Hollycroft)	R. R. Robbins, Esq.	5	1 0	94	22·5	24·40	156	120
D	Kew Bridge (Waterworks)	Met. Water Board	5	1 0	36	24·1	21·82	135	100
d	Chiswick (Town Hall)	Borough Engineer	8	0 2	27	23·3	(21·95)	...	...
D	Hanwell (+A)	Middlesex County Council	5	1 9	36	24·5	23·50	146	102
D	Ealing (St. Paul's Vicarage)	Rev. A. H. Cooper	5	1 6	100	24·7	22·40	159	114
d	Acton Pumping Station	Borough Engineer	5	1 0	22	...	19·58	...	102
D	Ealing (Hanger Hill Reservoir)	Met. Water Board	5	1 0	206	24·7	23·10	142	109
D	Willesden Reservoir	Met. Water Board	5	1 0	167	25·6	24·45	144	108
D	Willesden (Stonebridge Pk.)	Borough Engineer	5	5 9	100	...	26·93	155	112
D	NORTHOLT (Airport)	Meteorological Office	5	1 0	131	...	23·96	151	112
D	Greenford (Whitton Drive)	R. M. Eadie, Esq.	5	1 0	152	...	24·91	131	114
D	Wembley (Town Hall)	Borough Engineer	5	1 0	187	...	22·83	148	112
D	Harrow (Oakhurst)	A. Gardner, Esq.	5	1 3	295	24·2	25·57	167	127
D	Harrow (Eastcote Lane)	D. M. Woodman, Esq.	5	1 4	175	...	24·78	157	118
D	Brent Reservoir	Docks & Inland Waterways	5	1 3	138	...	23·91	153	108
d	Rayners Lane (High Worple)	R. H. Daw, Esq.	5	1 0	153	...	25·85	155	110
D	Ruislip (+A)	Middlesex County Council	5	1 6	142	...	26·73	162	115
D	Harrow (Headstone Road)	S. Hyla Greves, Esq.	5	1 0	208	...	29·22	179	122
D	Hendon (Council Depot)	A. O. Knight, Esq., C.E.	8	1 0	157	...	26·74	167	116
d	East Finchley (Devon Rise)	A. G. Culmer, Esq.	5	1 6	200	...	24·81	152	114
D	Finchley (Church End)	Sister Marie Jacques	5	0 8	296	...	26·85	167	125
D	Ruislip Reservoir	Docks & Inland Waterways	5	1 3	170	...	28·70	189	120
D	WEALDSTONE (Kodak Works)	Messrs. Kodak, Ltd.	5	1 0	204	25·3	26·73	175	120
D	Northwood (Briarwood Drive)	C. C. Legge, Esq.	5	1 6	150	...	26·38	145	115
D	Northwood (Ravenswood)	M. T. Allen, Esq.	5	2 0	365	...	26·90	158	121
D	Edgware M.C.C. Depot (+A)	Middlesex County Council	5	0 9	179	25·8	25·96	139	122
W	Mill Hill (Lyndhurst Avenue)	Capt. C. E. Mills	5	1 0	200	...	28·20	...	...
D	Stanmore (+A)	Harrow U.D.C.	5	1 6	281	...	26·28	154	119
d	Edgware (Francklyn Gardens)	A. R. Bill, Esq.	5	...	250	...	26·17	...	...
D	Elstree (Ridgeway)	Major N. G. Brett-James	5	0 10	450	...	26·52	139	111
D	Potters Bar (Mount Grace)	E. Halsey, Esq.	5	1 3	375	27·1	26·99	149	124
	2.—THAMES. Lea. 47 sq. mi.								
D	Crouch End (Priory Park)	J. H. M. Richards, Esq., C.E.	5	1 0	118	25·8	25·63	140	115
D	Hornsey (High Street)	Met. Water Board	5	1 0	107	24·9	24·66	150	116
D	Harringay (Wightman Rd.)	J. H. M. Richards, Esq., C.E.	5	1 0	90	...	24·33	144	111
D	Muswell Hill (Council Nurseries)	J. H. M. Richards, Esq., C.E.	5	1 0	209	26·1	26·84	162	121
D	Wood Green (Maryland Road)	F. C. Hornsey, Esq.	8	1 0	110	...	26·67	161	122
D	Finchley (Victoria Park)	P. M. Spencer, Esq., C.E.	5	0 11	300	26·3	28·23	159	117
D	Palmers Green (Broomfield Pk.) (+A)	J. T. W. Peat, Esq.	8	1 6	136	24·7	25·48	146	113
D	Enfield (Sewage Works)	Engineer & Surveyor	5	1 3	43	...	23·15	127	102
D	SOUTHGATE (Oakwood Park) (+A)	J. T. W. Peat, Esq.	5	1 0	220	...	25·79	151	114
D	Ponders End Pumping Station	Met. Water Board	5	1 0	45	23·3	22·55	139	107
D	Enfield (Southbury Road)	Met. Water Board	5	1 0	148	24·7	24·70	147	114
D	Enfield (Forty Hill)	Dr. E. C. Carter	5	0 11	125	...	24·72	153	112
D	Enfield (Roselands, Turkey St.)	E. S. Rashleigh, Esq.	5	1 0	80	23·2	24·55	155	110
D	Enfield (Whitewebbs Park)	Engineer & Surveyor	5	1 2	120	...	23·77	141	111
D	Waltham Cross (Sewage Works)	Cheshunt U.D.C.	5	1 0	61	22·6	23·97	149	113

DIVISION III—SOUTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	HERTFORDSHIRE. (Area 635 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—THAMES. Thame. 10 sq. mi.								
D	Tring (Pendley Manor)	D. Williams, Esq.	5	1 0	420	28·4	30·81	152	129
	2.—THAMES. Colne & Brent. 199 sq. mi.								
D	Northwood (St. Mary's Avenue)	R. H. Daw, Esq.	5	1 0	231	...	26·92	176	122
D	Batchworth Heath (Bathend)	H. H. Annetts, Esq.	5	1 0	364	...	25·60	175	121
D	Bushey Heath (California Lane)	Miss C. C. Cooper	5	1 0	550	26·0	26·13	151	120
D	Bushey Heath Reservoir	Colne Valley Water Co.	5	1 3	520	...	26·24	153	122
W	Totteridge (West Lodge)	P. D. Walker, Esq.	5	1 4	410	26·9	28·96	...	...
D	Totteridge (Gt. Bushey Drive)	J. Monger, Esq.	5	0 11	250	...	28·11	182	122
D	Batchworth (Pumping Stn.)	L. F. Hobbs, Esq., C.E.	5	1 2	156	...	27·69	168	119
D	Rickmansworth (The Island)	Docks & Inland Waterways	5	1 0	155	...	27·76	163	119
D	Watford (Pinner Road)	M. H. K. Irwin, Esq.	5	1 0	290	...	27·59	162	123
D	Watford (Leggatts Way School)	Headmaster	5	4 0	325	...	26·57	162	121
D	Croxley Green(Hill Cottage)	B. P. Waller, Esq.	5	1 0	240	...	28·91	173	120
D	Chorley Wood (Berry Lane)	M. B. King, Esq.	5	1 0	250	...	28·71	173	127
D	Barnet (Sewage Works) (+A)	E. Scott, Esq., C.E.	5	1 0	295	...	27·33	171	116
D	Boreham Wood (Furzehill Road)	H. T. Court, Esq.	5	1 0	302	...	27·92	167	117
W	Elstree (Aldenham Res.)	Colne Valley Water Co.	5	1 0	330	...	26·30	...	...
D	Watford	Colne Valley Water Co.	5	4 6	204	25·6	25·84	161	116
D	Watford (Waterworks)	L. C. Kimberlin, Esq., C.E.	8	2 10	170	25·9	26·33	144	118
D	Heronsgate (Waterfield House)	J. M. Richardson, Esq.	5	1 0	390	...	28·90	168	129
d	Sarratt (Micklefield Green)	J. O. Hickman, Esq.	5	1 0	360	29·0	29·55	...	...
D	Aldenham (C. of E. School)	L. W. Stratton, Esq.	5	1 0	390	...	24·62	154	112
D	Watford (Callowland)	K. C. Rees, Esq.	5	1 0	250	...	25·32	174	122
D	Garston (Building Research Station)	The Director	5	1 0	250	...	26·00	168	124
D	Kings Langley (Fir Tree Cottage)	Edward Toms, Esq.	5	1 0	278	28·1	29·52	168	130
D	Kings Langley (Ruckler's Lane)	L. H. Dennett, Esq.	5	1 0	264	...	28·04	171	115
D	North Mimms P.S. (+A)	Barnet Gas & Water Co.	5	1 0	254	...	26·24	156	118
D	Hemel Hempstead (Apsley Mills)	Messrs. J. Dickinson & Co.	24	1 4	268	27·9	28·31	156	122
	Boxmoor (Moorlands)	L. W. Swainson, Esq.	5	1 0	300	...	28·27	...	...
D	Colney Heath (Tyttenhanger P.S.)	Barnet Gas & Water Co.	5	1 0	241	25·7	24·93	158	114
d	St. Albans (Hill End Hospital)	Controller	5	1 0	295	25·1	21·99	...	105
D	St. Albans (Stonecross P.S.)	L. W. Ball, Esq.	5	1 6	420	...	23·93	148	105
D	St. Albans (Oaklands Inst.)	Principal	5	1 0	272	24·9	23·25	160	110
D	St. Albans (Gorhambury)	Head Gardener	5	1 0	432	27·9	29·11	162	124
D	Hatfield (Hatfield Pumping Stn.)	Barnet Gas & Water Co.	5	1 0	340	24·7	26·28	158	123
D	Berkhamsted (Rossway)	The Lady Hadden	5	1 3	400	...	32·07	179	133
D	Berkhamsted (Lagley)	Mrs. E. Johnston	5	1 0	380	...	29·14	165	117
D	Berkhamsted (Amersfort)	W. S. Cohen, Esq.	5	1 0	510	...	28·68	153	125
D	Berkhamsted (Frithesden Copse)	H. V. Gray, Esq.	5	1 0	550	...	30·57	169	133
D	Tring (Cowroast Lock)	Docks & Inland Waterways	5	1 0	390	28·4	29·47	161	124
d	Harpenden(West Common Way)	R. Meldrum, Esq.	5	1 0	420	...	26·33	...	123
D	Harpenden (Rothamsted)	Lawes Agricultural Trust	5	1 0	420	...	26·38	178	118
D	Harpenden (Rothamsted)	Lawes Agricultural Trust	5	1 0	420	27·3	25·95	173	118
D	Harpenden (Rothamsted)	Lawes Agricultural Trust	72×87	0 0	420	28·6	27·25	190	122
D	Markyate Waterworks	I. Wilson, Esq.	5	1 0	538	...	30·86	168	131
	3.—THAMES. Lea. 340 sq. mi.								
d	Cheshunt Cemetery	Cheshunt U.D.C.	5	0 11	160	...	23·06	151	105
D	Cheshunt Yard	Met. Water Board	5	1 0	100	24·1	24·10	165	109
D	Cheshunt (Darnicle Hill P. Stn.)	Met. Water Board	5	1 0	250	26·2	25·53	164	121
D	Hatfield (Clarke's Road)	C. A. Barnes, Esq.	8	1 0	270	...	24·34	179	115
D	Broxbourne (Broxbournebury)	Mr. D. Cake	5	1 0	140	...	23·74	182	106
D	Hoddesdon	H. F. Hayllar, Esq.	5	3 0	130	23·7	22·35	143	102
D	Hoddesdon (Feilde's Weir)	Met. Water Board	5	3 8	95	23·7	22·27	...	101
D	Haileybury College	Headmaster	8	1 0	270	24·8	25·87	173	114
D	Hertford (Cole Green)	Lee Conservancy Catchm. Bd.	5	1 0	240	...	23·78	157	123

DIVISION III—SOUTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	HERTFORDSHIRE—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	3.—THAMES. Lea—(*contd.*).								
D	Welwyn Garden City (Sewage Wks.)	Engineer & Surveyor ...	5	1 0	246	24·7	22·57	151	112
D	Hertford (Sewage Works)	Met. Water Board	5	1 0	123	23·3	23·63	155	111
D	Ware (Red House)	Met. Water Board	5	1 0	105	23·5	23·55	151	111
D	Ware (Grammar School)	Headmistress	5	1 2	118	23·0	24·07	140	110
D	Ware (Chadwell Spring)	Metropolitan Water Board...	5	1 0	140	24·2	23·56	151	107
D	Wheathampstead (Water End Ho.) ...	Countess L. M. Reventlow	5	1 0	255	...	25·95	155	120
d	Blakesware	Lee Conservancy Catchm. Bd.	5	0 9	230	...	22·94	...	115
D	Welwyn (Sewage Works)	C. B. Borthwick, Esq., C.E.	8	0 11	260	...	23·75	168	119
D	Welwyn (Codicote Lodge)	Head Gardener	5	1 0	340	25·8	25·42	152	120
D	Much Hadham (Moor Place) ...	R. C. Norman, Esq. ...	5	1 0	270	...	24·15	162	115
D	Breachwood Green School	S. J. Simpson, Esq. ...	5	1 0	489	...	26·31	155	124
d	Breachwood Green (Oxford Road) ...	Surveyor to Hitchin R.D.C.	8	1 0	480	...	26·99	...	...
D	Bishop's Stortford (Dunmow Rd.) ...	H. J. Holmes, Esq. ...	5	1 1	290	...	26·98	141	116
D	Little Hadham (Hadham Hall) ...	Miss S. Minet	5	1 0	338	24·5	22·82	137	112
D	Knebworth Park	Stevenage Development Corp.	5	1 0	378	...	24·46	161	121
D	Bragbury End	Stevenage Development Corp.	5	1 0	225	...	24·56	160	114
D	Stevenage (Broomen Green)	Stevenage Development Corp.	5	1 0	307	...	23·78	164	115
D	Hitchin (Preston Hill Farm)	F. H. Maybrick, Esq. ...	8	1 0	484	25·2	24·07	155	119
D	Braughing (Upp Hall)	Lady Brodie Henderson ...	5	1 6	370	...	25·27	186	131
D	Buntingford (Chipping)	Lee Conservancy Catchm. Bd.	5	0 7	340	...	25·17	141	121
D	Royston (Therfield Rectory)	Rev. H. R. Humphreys ...	5	1 0	512	25·2	26·33	163	120
D	Offley (School House)	Headmaster	5	1 2	526	25·4	25·65	157	126
D	Hitchin (Knightswood)	H. Cooke, Esq.	5	1 2	300	...	28·07	190	127
	4.—OUSE. 86 sq. mi.								
D	Letchworth (Museum)	Surveyor U.D.C.	5	1 0	290	22·3	23·74	137	114
D	Royston (Earls Hill House)	Col. E. C. M. Phillips, D.S.O.	8	1 3	225	23·6	25·82	165	112
	BUCKINGHAMSHIRE. (Area 743 sq. mi.)								
	1.—THAMES. Cherwell. 30 sq. mi.								
	Little Gaddesden (Ringshall End ...	Mrs. Bradby	5	1 1	700	28·9	28·52	...	...
D	Dagnall (Ivinglea)	E. L. Hawke, Esq., M.A. ...	5	1 0	550	...	32·90	195	143
	2.—THAMES. Thame. 158 sq. mi.								
D	Princes Risborough (Research Lab.)	Director	5	1 0	333	...	29·63	168	121
D	Ellesborough (Long Hazard)	Sir L. H. West, O.B.E. ...	5	1 2	400	...	27·58	147	118
D	AYLESBURY (County Farm)	Bucks Education Committee	5	1 0	316	...	25·50	171	123
D	Tring (Dancers End Pumping Stn.) ...	Bucks. Water Board ...	5	1 0	650	...	29·52	150	129
D	Tring (Bulbourne)	Docks & Inland Waterways	5	1 0	401	26·2	29·22	179	130
D	Aylesbury (Sewage Works)	Engineer & Surveyor ...	5	1 0	251	25·9	25·82	158	122
D	Mentmore Gardens	Mr. T. Lindores	5	1 3	400	25·0	23·97	156	121
	3.—THAMES. Wye & c. 129 sq. mi.								
D	Eton (Tangier Island) ... ... (+A)	G. S. Baker, Esq.	5	0 8	68	24·6	25·62	157	115
D	Slough (Upton)	Mrs. L. R. Bentley ...	5	1 0	78	23·9	25·75	164	115
D	Slough (Baylis House)	Borough Engineer	5	1 0	90	...	25·56	147	112
D	Taplow Court Gardens	G. H. Emmett, Esq. ...	5	1 0	212	23·9	25·00	161	120
D	Henley-on-Thames (Greenlands) ...	Lord Hambleden	5	1 0	125	27·1	25·86	143	122
D	Burnham Waterworks P.S.	The Engineer	5	1 0	180	...	25·86	165	117
d	Bourne End	B. C. Hammond, Esq. ...	5	1 0	96	...	26·66	...	...
D	Bourne End (Hedsor)	J. Wood, Esq.	8	1 0	170	...	28·14	159	131
D	Hambledon (Hatchmans)	Prof. G. E. Gask, C.M.G. ...	5	0 8	185	...	32·34	175	131
D	High Wycombe (Flackwell Heath) ...	W. C. F. Fairley, Esq. ...	5	1 10	365	26·8	27·64	159	118
D	High Wycombe (Pann Mill P.S.) ...	S. Young, Esq.	8	1 1	219	...	31·47	171	129
M	High Wycombe (Lane End Res.) ...	S. Young, Esq.	5	1 0	659	...	32·06	...	...

DIVISION III—SOUTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	BUCKINGHAMSHIRE—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	3.—THAMES. Wye & c.—(*contd.*).								
D	Penn (Rayners)	Mr. E. Peett	5	1 10	547	29·4	31·46	163	129
D	Radnage (Yewsden)	Rev. H. E. Cooper	5	0 11	430	...	34·74	159	138
D	Hampden House	The Earl of Buckinghamshire	5	1 0	695	29·2	28·93	179	124
	4.—THAMES. Colne 133 sq. mi.								
D	Slough (Ditton Park)	Admiralty	5	2 0	70	24·7	25·97	164	122
D	Uxbridge (New Denham)	H. J. Harley, Esq.	8	1 0	108	...	24·22	167	113
D	Gerrards Cross (Alderbourne Arches)	Mrs. Sharp	5	1 0	180	...	27·39	178	122
D	Gerrards Cross (Mill Lane)	A. L. Carroll, Esq.	5	1 0	280	...	25·73	155	119
d	Denham Golf Club	Secretary	5	1 0	210	26·4	26·43	...	115
D	Gerrards Cross (Bulstrode Gdns.)	R. G. Baty, Esq.	5	1 6	280	27·2	26·18	165	119
D	Beaconsfield	S. H. Dyer, Esq.	5	1 0	350	27·7	28·59	170	127
D	Chalfont St. Giles (The Colony)	J. W. Edwards, Esq.	8	1 2	340	...	27·14	182	120
D	Coleshill (Rushymead)	Mr. F. Aldridge	5	0 7	550	...	30·15	163	128
D	Amersham Waterworks	F. L. Gordon, Esq.	8	1 0	292	...	30·69	177	133
D	Amersham (Chestnut Lane)	R. L. Alexander, Esq.	5	1 3	500	...	30·63	159	124
D	Gt. Missenden (Pumping Stn.)	L. F. Hobbs, Esq., C.E.	5	0 11	372	27·6	31·63	171	126
D	Chesham (Nashleigh Hill)	Mrs. Hayes	5	1 0	534	29·1	29·96	181	127
D	Wendover (Pumping Station)	Bucks. Water Bd.	8	1 0	486	...	31·84	185	132
	5.—OUSE. 293 sq. mi.								
D	Oving House	Head Gardener	5	1 0	515	26·4	26·77	163	117
d	Wing (Burcott Lodge Farm)	B. B. Winter, Esq.	5	1 0	420	...	26·17	...	...
D	Buckingham (Modern Sec. School)	Headmaster	5	1 1	303	...	26·98	147	114
D	Buckingham (Market Hill)	A. Pettipher, Esq.	5	1 0	300	25·3	27·98	175	122
d	Wolverton (Sec. Modern School)	The Headmaster	5	5 0	263	22·9	27·37	...	...
D	Newport Pagnell (Lovat Bank)	F. W. Taylor, Esq.	5	1 8	250	...	29·28	158	119
D	Newport Pagnell (Lathbury)	late F. W. Coales, Esq.	8	1 2	200	23·2	27·72	163	121
D	Olney Waterworks	F. C. Gasson, Esq.	5	1 0	175	...	28·38	166	119
D	Olney (Colchester House)	R. E. Sowman, Esq.	5	0 9	170	...	27·44	164	105
D	Turvey (Brayfield House)	Major M. E. Farrer, J.P.	5	5 0	180	23·3	26·99	148	112
	OXFORDSHIRE. (Area, 756 sq. mi.)								
	1.—SEVERN. Upper Avon. 10 sq. mi.								
D	Sibford Ferris (West View)	B. W. Lamb, Esq.	5	1 0	570	27·3	32·08	168	120
	2.—THAMES. Windrush & c. 261 sq. mi.								
D	Kelmscott	R. Hobbs, Esq.	6	0 10	200	24·8	27·67	146	111
	Broughton Poggs	late J. N. Hardcastle, Esq.	5	1 0	275	26·2	32·07	150	116
D	Witney (Grammar School)	A. L. Parker, Esq.	5	0 11	275	...	33·00	157	120
d	Charlbury (Cornbury Park)	Head Gardener	5	1 0	420	...	35·27	...	112
D	Chadlington (The Manor)	Paul Handy, Esq.	5	1 0	400	...	29·00	144	121
D	Chipping Norton (Heythrop College)	Procurator	8	1 0	600	28·0	35·21	192	139
D	Chipping Norton (Bungalow)	T. H. Pettipher, Esq.	5	1 0	750	27·6	31·93	145	112
	3.—THAMES. Cherwell. 250 sq. mi.								
D	Sandford-on-Thames (Elmslea)	Dr. L. T. Burra	5	1 0	200	...	27·15	156	111
D	Oxford (Hincksey Pumping Station)	H. H. Crawley, Esq., C.E.	8	1 0	187	24·0	28·94	170	120
D	Oxford (Osney Lock)	Thames Conservancy	5	1 6	186	24·4	26·34	151	108
D	Oxford (Magdalen College)	F. J. Parker, Esq.	5	1 0	186	23·8	28·45	175	116
D	OXFORD (Radcliffe Met. Station)	Reader in Climatology	8	1 0	208	24·8	28·64	175	121
D	Oxford (Banbury Road)	P. E. Saunder, Esq.	4	1 6	200	...	30·72	161	127

DIVISION III—SOUTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	OXFORDSHIRE—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—THAMES. Cherwell—(*contd.*).								
D	Kidlington (Shipton Manor)	A. J. Wells, Esq.	5	1 0	243	...	30·68	165	121
D	Tackley (Hampton)	W. Evetts, Esq.	5	1 0	266	...	31·85	156	115
d	Middleton Park	A. C. J. Wall, Esq.	5	1 6	326	25·8	30·76	...	...
D	Upper Heyford (Airfield)	(+A) Meteorological Office	8	1 0	408	25·7	30·78	156	117
D	West Adderbury (Cross Hill)	Lt.-Col. H. E. du C. Norris	5	1 0	338	25·4	32·64	157	126
D	West Adderbury (St. Amand's)	Miss M. M. Bradford	5	1 0	350	25·9	31·93	146	116
d	Banbury (Cotefield)	Capt. C. N. Kayser	5	0 9	350	...	29·39	...	123
D	N. Newington (Orchard House)	H. J. Busby, Esq.	5	1 3	392	...	34·25	181	129
D	Banbury (Bloxham Road)	Dr. C. Royds Jones	5	1 0	416	25·8	30·45	164	121
D*	Grimsbury (Banbury W.W.)	Banbury Water Co.	5	1 3	299	...	29·77	149	117
	4.—THAMES. Thame & c. 210 sq. mi.								
D	Whitchurch (The Haven)	D. H. J. Holmes, Esq.	5	1 0	140	...	27·48	167	117
D	Henley-on-Thames (Hart Street)	A. Edward Hobbs, Esq.	5	1 0	110	25·8	28·83	159	118
D	Henley-on-Thames (Greys Lane)	G. F. Smith, Esq.	5	1 1	123	26·1	26·05	150	115
D	Henley-on-Thames (Chilterns End)	J. E. Chalcroft, Esq.	5	1 0	250	...	30·26	167	120
D	Ipsden (The Vicarage)	Rev. P. D. Irwin	5	1 0	225	...	27·69	154	116
D	Ipsden (Hailey)	A. F. Williams, Esq.	5	1 0	350	27·0	25·75	167	113
D	Swyncombe House	C. W. Christie-Miller, Esq.	5	1 0	515	30·2	32·58	158	126
D	Swyncombe (Cookley House)	J. S. C. Bridge, Esq.	5	1 0	730	30·7	33·68	172	129
D	Watlington (Britwell Salome)	R. Roadnight, Esq.	5	1 0	400	...	28·62	149	131
D	Watlington (Spring Lane)	N. G. Brown, Esq.	5	1 0	360	...	27·98	163	120
D	Watlington (Cuxham)	P. J. Edwards, Esq.	5	0 10	200	...	27·29	184	132
D	Clifton Hampden (Manor House)	The Hon. Mrs. G. Gibbs	5	1 0	190	23·7	27·46	173	120
D	Watlington (Pyrton Manor)	Mrs. Ducat Hamersley	5	1 0	325	26·5	29·33	173	134
D	Drayton St. Leonard (Guy's)	R. Jackson, Esq.	5	1 0	164	...	24·92	156	112
D	Wheatfield	Lt.-Col. A. V. Spencer, D.S.O.	5	0 11	260	25·6	26·70	161	126
d	Toot Baldon (Potlands)	H. J. Richens, Esq.	5	1 0	289	24·7	26·30	...	...
D	Thame (Chiltern Grove)	H. Badger, Esq.	5	1 0	220	...	27·20	172	124
D	Forest Hill (Battlemoor Cottage)	Mrs. Spencer	5	0 10	400	...	28·75	156	123
	NORTHAMPTONSHIRE. (Area, 1,003 sq. in.)								
	1.—SEVERN. Upper Avon. 60 sq. mi.								
D	Rugby (Braunston Rectory)	Rev. H. E. Ruddy	5	1 0	385	...	32·54	162	117
D	Naseby Reservoir	Docks & Inland Waterways	5	2 0	519	25·2	29·24	187	131
	2.—THAMES. Cherwell. 77 sq. mi.								
	3.—OUSE. 148 sq. mi.								
d	Hazelborough Woods	Forestry Commission	8	1 0	441	...	31·21	176	133
D	Wappenham (Lois Weedon Vicarage)	Rev. E. V. Fenn	5	1 2	400	...	32·98	169	130
D	Towcester (Bradden House)	Miss U. Grant-Ives	5	0 10	420	26·5	35·43	158	122
D	Towcester (Easton Neston)	The Rt. Hon. Lord Hesketh	8	1 0	325	26·6	31·49	166	126
	4.—NENE. 622 sq. mi.								
D	Salcey Forest	Forestry Commission	8	1 3	370	26·4	31·22	175	117
D	Blisworth (Grand Junction Canal)	Docks & Inland Waterways	5	4 6	300	23·8	33·79	176	133
D*	Little Houghton House	Mrs. Davidge	5	1 0	270	24·3	27·19	138	109
D	Northampton (Hardingstone Gen. Stn.)	British Electricity Authority**	5	1 0	189	...	25·82	151	112
D	Northampton (General Hospital)	Secretary-Superintendent*	5	1 3	258	23·5	26·97	164	120
D*	Northampton (St. Crispin Hosp.)	Medical Superintendent	8	1 2	398	24·3	29·72	150	125

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** *Per* R. Nene Catchment Board.

DIVISION III—SOUTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	NORTHAMPTONSHIRE—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	4.—NENE—(*contd.*).								
D*	Northampton (Stimpson Avenue)	... L. H. Brown, Esq., B.Sc., C.E.	8	1 0†	329	...	28·00	149	126
D*	Northampton (Mercers Row)	... C. W. Boddington, Esq. ...	5	12 0	250	23·6	27·88	183	125
D*	Duston (Southfield Road) ...	... W. P. Walker, Esq.... ...	5	1 0	342	25·4	30·93	186	129
D	Brockhall (The Old Rectory) ...	... Major J. Orr Ewing, M.C.	5	0 11	300	...	28·25	166	117
D	Wollaston	... G. Harris, Esq.	5	1 0	250	23·0	27·91	161	120
D	Daventry (Tunnel End) ...	... Docks & Inland Waterways	5	1 6	394	25·5	28·27	166	114
D*	Althorp Park	... Head Gardener	5	1 0	400	26·1	27·85	193	124
D	Boughton Park	... A. J. Old, Esq.	5	1 3	350	...	27·82	194	129
D	Wellingborough (Nene Wharf)	... R. Nene Catchment Bd. ...	5	1 0	135	...	25·08	155	118
D*	Wellingborough (Swanspool) ...	... R. Kilby, Esq.	5	1 0	187	24·3	26·72	167	121
D	Wellingborough (Sewage Works)	... R. Kilby, Esq.	5	1 0	139	23·2	22·58	147	104
D§	Wellingborough (Bushfield W.W.)	... R. Kilby, Esq.	8	0 11	286	23·3	26·50	163	124
D	Wellingborough Ironworks ...	... Stanton Ironworks Co. Ltd.	5	0 7	184	...	26·07	162	124
D*	Ravensthorpe	... L. H. Brown, Esq., B.Sc., C.E.	5	0 11	320	25·5	27·72	159	117
d	Great Harrowden (The Hall) ...	... L. J. Farnham, Esq.** ...	5	1 4	290	...	25·03	...	118
D*	Hollowell	... L. H. Brown, Esq., B.Sc., C.E.	5	1 0	400	...	26·98	186	132
D	RAUNDS (Madison)	... T. C. Smith, Esq.	5	1 0	193	...	27·64	171	110
D	Orlingbury Pumping Station ...	... R. Kilby, Esq.	5	1 0	286	...	27·15	152	121
D	Lamport Grange	... C. J. Jay, Esq.**	5	0 6	440	26·9	29·80	184	130
D	Kettering (London Road) ...	... S. K. Harris, Esq.	5	1 0	257	...	28·77	176	124
D	Kettering W.W. (Cransley) ...	... Borough Engineer	8	1 6	275	23·7	28·43	186	129
D*	Kettering (Sewage Works) ...	... Borough Engineer	8	1 2	199	24·2	27·84	170	124
D	Kettering W.W. (Thorpe Malsor)	... Borough Engineer ...	5	1 0	351	24·8	28·01	173	123
D	Kettering W.W. (Clover Hill)	... Borough Engineer	5	1 0	344	24·2	26·95	160	115
D	Thrapston (Drayton House) ...	... Mr. C. V. Craske	5	1 6	220	24·7	27·18	184	121
d	Thrapston (Islip Furnaces) ...	... Messrs. Stewart & Lloyds ...	...	... ...	...	...	27·03	...	...
	Tichmarsh Rectory	... Rev. Canon A. M. Luckock*	5	1 0	170	23·9	28·87	...	...
D	Rothwell (Shotwell Mill W.W.)	... Surveyor U.D.C.	5	1 5	325	23·6	28·77	174	120
D	Desborough U.D.C. Waterworks	... A. Harris, Esq., C.E. ...	5	0 9	457	24·7	28·86	164	124
d	Barnwell (Lilford Hall) ...	... Lord Lilford	8	1 0	100	23·8	28·24	...	...
d	Oundle (Nene Wharf)	... R. Nene Catchment Board	5	1 0	65	...	25·24	...	...
D	Corby	... Messrs. Stewarts & Lloyds**	5	1 0	365	...	27·30	163	118
d	Peterborough (Woodston) ...	... British Sugar Corpn. Ltd.	5	1 0	35	22·3	22·32	...	...
D	Peterborough (Westbourne House)	... E. H. Colman, Esq. ...	5	1 0	35	21·6	23·14	164	105
D	Peterborough (Sewage P.S.) ...	(+A) F. J. Smith, Esq., C.E. ...	8	0 10	9	...	22·88	144	86
D	PETERBOROUGH (Park Crescent)	... J. H. Avery, Esq.	5	1 0	30	...	24·20	144	100
D*	Peterborough (Abbeyfields) ...	... Major J. Shipley Ellis, J.P.	5	1 0	49	21·8	24·26	179	108
D	Wittering (Bone Mill)	... E. Betts, Esq.	8	1 0	183	23·5	25·93	142	107
D	WITTERING (Airfield)	(+A) Meteorological Office ...	5	1 0	261	...	25·36	164	107
	5.—WELLAND. 96 sq. mi.								
d	Gretton (Hillside)	... W. Leeson, Esq.	5	1 0	275	...	29·37	...	...
d	Easton-on-the-Hill	... W. H. Tillson, Esq. ...	5	0 7	290	23·5	27·38	...	...
D	Market Deeping (Etton) ...	... F. J. Smith, Esq., C.E. ...	8	1 0	25	21·8	22·66	155	106
	HUNTINGDONSHIRE. (Area, 366 sq. mi.)								
	1.—OUSE. 327 sq. mi.								
D	St. Neots (The Square) ...	... Miss L. Sibley	5	0 10	50	21·9	24·36	155	106
D	Brampton School	... W. T. Carter, Esq. ...	5	1 0	30	22·3	27·31	139	111
D	Hemingford Grey	... F. W. Norris, Esq.	5	2 0	20	21·9	24·66	159	107

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† " Ground " is the roof of a reservoir 18 ft. above the general level.

** *Per* R. Nene Catchment Board. § Turf wall round gauge.

DIVISION III—SOUTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	HUNTINGDONSHIRE—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	1.—OUSE—(*contd.*).								
D	St. Ives (Tenterleas)†	late Dr. W. R. Grove	5	1 0	25	22·6	25·62	174	120
D	Bluntisham Rectory	Rev. R. F. McNeile	5	1 0	50	...	25·35	160	119
d	Abbot's Ripton Hall	G. McLeod, Esq., C.E.	5	1 6	80	...	26·06	139	111
D	Connington Castle Gardens	G. McLeod, Esq., C.E.	5	1 0	25	...	25·24	138	111
d	Benwick (Four Hundred Farm)	G. McLeod, Esq., C.E.	5	1 0	5	...	22·44	146	101
D	Whittlesea Mere	G. McLeod, Esq., C.E.	8	1 6	10	21·4	22·00	152	103
D	Peterborough (Farcet)	G. E. D. Alcock, Esq.	5	1 0	65	...	23·63	162	105
	2.—NENE. 39 sq. mi.								
	BEDFORDSHIRE. (Area, 467 sq. mi.)								
	1.—THAMES. Colne. 20 sq. mi.								
D	Studham Hall	A. S. Butler, Esq.	5	1 0	636	...	27·21	168	119
D	WHIPSNADE (Park)	Zoological Society	5	1 0	720	28·7	31·57	180	136
	2.—THAMES. Lea. 32 sq. mi.								
D	Luton (Pumping Station)	Borough Engineer	5	1 2	330	25·8	27·57	144	122
D	Dunstable (Water Works)	Dunstable Gas & Water Co.	5	1 0	520	...	26·94	150	118
D	Dunstable (Cemetery)	G. Ashton, Esq., C.E.	8	1 3	515	...	25·60	158	124
D	LUTON (Wardown Park)	Borough Engineer	5	1 0	381	...	26·74	152	122
	3.—OUSE. 408 sq. mi.								
D	Luton (Stopsley)	Lee Conservancy Catchm. Bd.	5	1 0	540	25·7	29·17	162	132
D	DUNSTABLE	Meteorological Office	5	1 0	516	...	27·10	158	122
D	Leighton Buzzard (Heath Road)	Gt. Ouse Catchment Bd.	5	1 0	250	...	26·76	202	128
d	Battlesden P.S.	Bucks. Water Board	8	1 0	358	...	26·60	...	119
D	Meppershall (High Street)	Mrs. G. Rainbow	5	1 0	250	22·9	24·78	149	122
D	Hockliffe (Lyndhurst)	C. J. Kilby, Esq.	5	1 0	241	25·0	25·32	173	122
D	WOBURN (Experimental Farm)	Lawes Agricultural Trust	8	1 0	291	23·9	28·38	167	117
D	Letchworth (New Sewage Works)	Surveyor, U.D.C.	5	1 0	209	22·3	23·35	144	106
d	Stotfold (Three Co. Mental Hosp.)	Dr. McDiarmid	5	1 0	220	22·6	23·55	...	...
d	Silsoe (The Red House)	H. I. Godfrey, Esq.	5	1 0	212	22·2	28·12	...	103
D	Arlesey Sewage Works	H. W. Pridmore, Esq.	5	1 2	133	22·4	24·89	141	117
D	Stotfold Sewage Works	H. W. Pridmore, Esq.	5	1 0	130	...	23·63	140	115
d	Shefford (Clifton)	W. Inskip, Esq.	5	1 0	137	22·5	24·76	167	118
	Shefford (Clifton Bury)	C. H. Inskip, Esq.	5	1 6	90	22·2	22·88	...	...
D	Biggleswade (New Spring P.S.)	T. A. Staniforth, Esq.	5	1 6	180	21·6	22·39	146	101
D	CRANFIELD (+A)	Meteorological Office	5	1 0	340	...	26·29	150	111
	Kempston	Mr. C. S. Payne	6	2 0	125	...	24·30	130	98
D	Potton Sewage Works	H. W. Pridmore, Esq.	5	1 0	116	21·7	22·18	146	111
D	Sandy (Mogerhanger Park)	W. R. Pettifer, Esq.	5	1 0	152	23·1	23·47	129	112
D	Sandy (Sewage Works)	Sandy U.D.C.	5	1 0	72	...	21·60	135	96
D	Bedford (Castle Road)	Miss M. E. Newbery	5	4 0	100	22·3	25·26	155	112
D	Bedford (Queens Park)	J. K. Rothwell, Esq.	5	1 0	92	...	26·08	168	112
D	Bedford (Bedford Park) (+A)	Borough Engineer	8	1 3	117	...	24·14	156	102
D	Goldington (Castle Mill House)	G. A. Rogers, Esq.	5	1 6	75	21·9	22·88	130	89
D	Bromham (Park House)	Mrs. Hulse	5	1 0	170	...	27·73	121	112
D	Turvey Rectory	Rev. C. A. B. Allen	5	1 0	160	...	26·36	159	107
D	Great Barford House	J. Arnold Whitchurch, Esq.	5	1 6	120	22·1	25·05	159	119
d	Pavenham	C. D. Linnell, Esq.	5	0 6	200	22·4	26·87	...	111
D	Carlton (Stayesmore Manor)	Col. G. A. Battcock	5	1 0	168	...	27·63	159	114
	4.—NENE. 7 sq. mi.								

† Station formerly called St. Ives (Slepe House).

DIVISION III—SOUTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	CAMBRIDGESHIRE. (Area, 863 sq. mi.)		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	1.—STOUR. 17 sq. mi.								
	2.—OUSE. 741 sq. mi.								
D	Ashwell (Odsey)	W. Herbert Fordham, Esq.	5	1 6	256	23·0	25·58	172	110
D	Abington Pigotts Hall	Mr. H. Witherow	5	1 0	75	21·8	24·50	123	100
D	Horseheath (Rose Farm)	B. Tabram, Esq.	5	1 0	320	...	29·55	151	119
D	Hildersham (Old Mill House)	Lt.-Col. O. B. Foster	5	1 4	108	...	24·11	173	121
d	Great Shelford (Vicarage)	Rev. R. Gardner	5	1 0	50	...	(23·79)	(149)	(110)
D	Fulbourn (Fleam Dyke)	Cambridge W.W. Co.	5	1 0	99	23·0	21·23	166	107
D	Fulbourn (Cambridge Mental Hosp.)	Head Gardener	5	0 6	72	...	23·60	143	119
D	Cambridge (Barrow Road)	N. T. Myers, Esq.	8	0 9	47	23·8	25·19	154	112
D	Cambridge (33 Barrow Road)	Rev. H. C. Newbery	5	1 6	45	...	25·61	168	108
D	Cambridge (Corporation Store Yd.)	Borough Engineer	5	1 8	52	21·2	24·82	148	105
D	CAMBRIDGE (BOTANIC GARDENS)	Curator	5	1 1	41	21·8	25·57	153	110
d	Cambridge (Trumpington Rd.)	Canon H. J. E. Burrell	5	1 6	25	...	23·50	...	...
	Cambridge (Glisson Road)	Rev. M. de Courcy-Ireland	5	1 0	45	...	26·27	145	107
D	Cambridge (Corporation P.S.)	Borough Engineer	5	2 4	42	22·1	25·05	145	108
d	Cambridge (Coldhams Lane)	Gt. Ouse Catchment Bd.	5	1 3	30	...	23·98	(148)	(103)
D	Cambridge (Oxford Road)	J. Doggett, Esq.	5	1 0	62	...	27·40	137	104
d	Dullingham (Stetchworth Park)	Mr. H. Fern	5	1 0	270	...	23·92	...	...
D	Quy Hall	Lt.-Col. J. C. W. Francis	5	0 9	23	22·6	28·03?	156	118
D	Boxworth (Manor House)	Lt.-Col. E. B. Thornhill, M.C.	5	1 0	76	23·4	28·48	201	121
D	Cottenham (Bernard House)	Miss K. Bull	5	1 6	30	22·1	25·53	176	117
D	Fordham (London House)	W. V. Bloom, Esq.	5	1 0	30	21·4	21·61	145	112
D	Stretham Engine	C. O. Clarke, Esq.	5	1 0	13	21·2	22·04	149	110
D	Ely (Prickwillow)	Supt. Middle Fen Comm.	...	... ...	10	...	23·09	151	109
D	Littleport (Highfield House)	H. G. Martin, Esq.	8	4 0	67	21·3	22·84	149	102
D	Chatteris (The Vicarage)	Rev. J. C. Hawthorn	5	1 0	30	...	22·36	176	110
D	Chatteris (Cemetery)	G. McLeod, Esq., C.E.	5	1 0	25	...	23·63	142	103
d	Whittlesey (Ashline Sluice)	G. McLeod, Esq., C.E.	5	1 0	15	...	25·68	...	103
D	March	G. McLeod, Esq., C.E.	9	2 0	10	22·8	23·77	126	110
D	Upwell (Marmont Priory Lock)	G. McLeod, Esq., C.E.	8	1 1	10	20·6	22·38	172	108
	3.—NENE. 105 sq. mi.								
D	Stanground Sluice	G. McLeod, Esq., C.E.	5	1 0	15	21·7	23·64	163	110
D	Thorney Toll (Elm Tree Farm)	Mrs. Snushall	5	2 6	6	...	22·30	128	108
D	Thorney (North House)	H. W. Burton, Esq.	5	1 0	4	...	21·79	153	103
D	Thorney (Nutsgrove Farm)	T. R. Pick, Esq.	5	0 5	12	...	21·12	129	101
D	Parson Drove (Clows Cross)	J. C. Purser, Esq.	8	1 0	6	22·1	22·93	150	111
D	Wisbech (Queens Road)	C. Dann, Esq.	5	1 6	10	23·0	23·04	146	104
d	Wisbech (Tydd Manor)	A. H. Carter, Esq.	5	6 6	9	...	22·97	...	104

DIVISION IV—EASTERN COUNTIES

	ESSEX. (Area, 1,532 sq. mi.)								
	1.—THAMES. Lea. 132 sq. mi.								
D	West Ham (Abbey Mills)	London County Council	8	0 8	15	22·3	25·82	146	108
D	Leyton (Sewage Works)	Borough Engineer	5	0 9	22	23·0	24·54	151	108
D	Lea Bridge (Waterworks)	Met. Water Board	5	1 0	23	*22·0*	23·20	131	113
D	Walthamstow (Ferry Lane)	Met. Water Board	5	1 0	30	22·6	23·27	133	110
D*	Woodford (Haggar Lane)	Met. Water Board	8	1 0	176	23·0	26·23	141	114
D*	Buckhurst Hill Reservoir	Met. Water Board	5	1 0	275	*23·9*	24·86	146	118
D	Chingford (Beresford Road)	H. Hawkins, Esq.	5	0 10	150	...	23·23	158	115
D	Chingford (Crescent Road)	Miss M. L. Mathieson	5	1 0	200	*23·3*	23·90	147	107

* Turf wall round gauge.

DIVISION IV—EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	ESSEX—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—THAMES. Lea.—(*contd.*).								
D	Chingford Mill	Met. Water Board	5	1 0	40	*23·0*	22·86	148	111
D	Loughton (High Beech Res.)	Met. Water Board	8	1 0	376	*25·1*	25·86	164	117
D	Waltham Abbey (Rammey Marsh)	Met. Water Board	5	1 0	60	*23·4*	23·30	150	107
D	Waltham Abbey (Pumping Stn.)	Met. Water Board	5	1 0	62	23·3	23·36	150	109
d	Waltham Abbey (Gunpr. Factory)	Superintendent	5	1 0	64	...	25·63	...	96
D	Harlow (Hill House)	Capt. T. M. Illingworth	5	1 0	175	...	23·72	160	108
D	Spellbrook Lock	Lee Conservancy Catchm. Bd.	5	0 9	172	...	24·13	145	112
D	Hatfield Broad Oak (Barrington)	A. H. Gosling, Esq.	5	0 10	300	24·3	26·86	161	115
D	Stansted Nurseries	C. G. Hill Smith, Esq.	5	1 0	250	...	25·83	150	123
D	Stansted (Burton Bower)	Major E. Catskell	5	1 0	300	...	25·68	166	116
	Stansted (Bentfield Place)	Major W. S. Gosling	5	0 9	300	*24·6*	25·42	152	...
	2.—THAMES. Roding & c. 316 sq. mi.								
d	Tilbury (Beaconsfield Road)	G. F. Andrassy, Esq., C.E.	5	1 0	6	*20·2*	20·09	133	105
D	Purfleet	Thames Board Mills, Ltd.	8	1 0	4	...	21·13	167	101
D	Rainham (Riverside Sewage Wks.)	Dagenham U.D.C.	5	1 6	0	19·3	19·76	158	101
D	Orsett Hall	Col. F. H. D. C. Whitmore	8	1 2	80	...	20·61	137	105
D	Barking	Engineer and Surveyor	5	1 0	5	...	22·94	139	101
D	EAST HAM (Central Park)	Corporation	8	1 0	15	22·3	24·46	144	103
D	East Ham Well	Met. Water Board	5	1 0	17	21·6	22·83	141	101
D	Canvey Island	Engineer & Surveyor	5	1 0	9	...	20·10	149	108
D	Ilford (Loxford Park)	L. E. J. Reynolds, Esq., C.E.	5	1 0	30	...	25·51	160	113
D	Ilford (Goodmayes Park)	L. E. J. Reynolds, Esq., C.E.	5	1 0	38	...	24·00	144	104
D	Ilford (Valentines Park) (+A)	L. E. J. Reynolds, Esq., C.E.	5	1 0	43	...	24·43	148	102
D	Ilford (Clayhall Park)	L. E. J. Reynolds, Esq., C.E.	5	1 0	109	...	25·46	139	109
D	Ilford (Barkingside)	N. Twydell, Esq.	5	1 0	85	...	24·90	126	103
D	Ilford (Hainault Rec. Ground)	L. E. J. Reynolds, Esq., C.E.	5	1 0	105	...	26·21	160	118
D	SOUTHEND (The Cliffs)	The Piermaster	8	0 8	90	...	18·10	144	100
D	Southend (Waterworks)	Southend Waterworks Co.	8	1 0	112	20·3	19·10	146	98
D	Vange Pumping Station	Southend Waterworks Co.	5	1 0	43	...	19·11	138	97
d	Manor Park (City of London Cemy.)	Superintendent	5	0 6	50	22·4	25·64	...	98
d	Pitsea Pumping Station	Southend Waterworks Co.	5	1 0	28	*20·6*	21·32	...	...
D	Horndon (Eastern Sewage Works)	Hornchurch U.D.C.	8	1 3	23	*20·5*	18·59	127	96
D	Hornchurch	Hornchurch U.D.C.	8	1 0	44	*21·0*	21·95	160	101
D	Wanstead (Red Bridge)	Met. Water Board	5	1 0	25	22·8	24·78	140	104
D	Romford (Raphael Park)	Engineer & Surveyor	5	1 0	100	...	22·68	150	103
D	Havering-atte-Bower (Fernside)	E. W. Smith, Esq.	5	1 0	340	*25·8*	27·37	164	117
D	Brentwood (Senior School)	Headmaster	5	1 0	396	...	22·42	163	107
D	Loughton (The Summit)	Mrs. Stoker	5	0 9	314	...	25·19	143	109
D	Theydon Bois (Thrifts Hill)	H. Kemsley, Esq.	5	1 0	274	*23·6*	24·26	148	111
d	Theydon Bois (Birch Hall)	Lt.-Col. E. N. Buxton	5	0 11	300	*23·8*	24·69	133	109
D	Epping (Bower Hill)	F. C. Pasmore, Esq.	5	1 3	210	...	24·74	145	111
D	North Weald (Canes)	G. Hart, Esq.	5	1 0	250	*24·2*	25·33	154	117
D	Great Canfield	G. Eland, Esq.	5	1 0	300	...	26·65	142	115
	3.—CROUCH. 186 sq. mi.								
D	Southend (Southchurch Boulevard)	H. J. G. Ralph, Esq.	8	1 0	66	*21·0*	18·18	153	96
D	SHOEBURYNESS	Meteorological Office	5	1 0	11	19·8	18·16	146	100
d	Southchurch (Barling Road)	C. E. Smith, Esq.	5	1 6	25	...	18·45	114	99
d	Leigh (Office)	Southend Waterworks Co.	5	1 0	137	20·9	20·28	...	...
D	Leigh (Brick House)	Miss I. Bentall	5	0 10	136	...	20·15	144	105
D	Eastwood Pumping Station	Southend Waterworks Co.	8	1 0	50	*21·0*	22·03	166	104
D	Thundersley Reservoir	Southend Waterworks Co.	5	1 0	277	*21·3*	20·40	154	102
W	Nevendon Pumping Station	Southend Waterworks Co.	5	1 0	43	20·5	20·69	...	...
D	Billericay (Service Tank)	Southend Waterworks Co.	5	1 0	310	...	23·65	146	107
d	Billericay (Ramsden Hall)	T. W. Bacon, Esq.	5	0 9	260	*23·8*	24·35	...	113
D	Burnham (Wycke Farm)	J. W. Cottis, Esq.	5	1 0	0	...	18·64	138	105
d	Southminster (The New Moor)	Miss M. A. Athenborough	5	1 6	72	...	21·11	...	102

DIVISION IV—EASTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	ESSEX—(*contd.*).			*in.*	*ft.*	*in.*	*ft.*	*in.*	*in.*		
	4.—BLACKWATER. 425 sq. mi.									
D	Hutton (Greenway)		H. C. Mills, Esq., F.C.I.S.	5	1	6	325	...	25·57	173	120
D	Stock (Byways)		M. Bourne, Esq.	5	1	0	199	...	23·87	140	103
D	Ingatestone (Trueloves)		Mr. F. W. Mann	5	1	0	249	*23·1*	23·34	151	110
D	Chelmsford (Galleywood)		W. Lawrence Taylor, Esq.	8	1	0	200	...	23·85	137	106
D	Chelmsford (Longstomps Res.)		Water Engineer	5	1	0	230	...	23·58	165	103
D	Bradwell-on-Sea (Bellropes)		H. D. Chillingworth, Esq.	5	1	6	75	20·5	21·70	137	94
D	WRITTLE (Inst. of Agric.)		Executive Officer (E.W.A.E.C.)	5	1	0	110	...	23·74	144	107
D	MALDON		Town Clerk	5	1	0	14	*20·0*	19·97	150	107
D	Hatfield Peverel (Rushes Lock)		Southend Waterworks Co.	8	1	6	40	...	20·94	163	109
D	Langford (Treatment Plant)		Southend Waterworks Co.	8	1	5	40	*21·8*	20·55	151	106
d	Witham (Wickham Hall)		D. B. Smith, Esq.	5	0	10	60	*20·8*	20·99	135	110
D	Hatfield Peverel (Lower Farm)		H. J. Russel, Esq.	5	1	0	101	...	21·13	152	110
D	Hatfield Peverel (Bury Farm)		W. D. Goldsmith, Esq.	5	1	0	130	...	21·70	150	114
D	Tolleshunt D'Arcy (D'Arcy Hall)		C. Weston Eve, Esq.	5	1	0	85	...	20·08	151	106
d	Wickham Bishops		Mrs. M. D. Fowler	5	1	4	250	21·4	21·44	140	110
D	Tolleshunt D'Arcy (Oxley Hill)		H. Campkin, Esq.	5	1	0	100	*22·0*	21·31	163	114
D	Witham (Faulkbourne Hall)		Mrs. C. W. Parker	5	1	0	100	*21·9*	23·97	139	102
d	Little Leighs (Kelle)		W. C. Neild, Esq.	5	1	2	192	*22·3*	23·83	134	108
d	Kelvedon (Harboro Hall)		A. Bevington Smith, Esq.	5	1	0	200	...	22·96	...	...
D	Kelvedon (Messing Street)		Mrs. Calver	5	2	1	120	...	20·81	127	106
	Rivenhall (Park Gate Farm)		Joseph Smith (Farms) Ltd.	5	1	0	149	...	20·86	...	...
D	Felsted School		Headmaster	5	1	0	248	*22·9*	(25·64)	(136)	(108)
D	Felstead (Sugar Factory)		British Sugar Corporation	5	1	0	175	...	25·88	122	110
D	Great Dunmow		Messrs. Hasler & Co., Ltd.	5	1	0	241	...	22·13	132	99
D	Rayne (Staneway)		Mrs. Burt	5	1	0	247	*23·0*	24·23	142	112
D	Braintree (Coggeshall Road)		A. F. Gunn, Esq.	5	1	0	222	...	25·85	130	106
D	Shalford (Littles)		G. B. Hart, Esq.	5	1	6	252	22·8	23·87	153	116
d	Great Bardfield (South Lodge)		G. H. Brunwin, Esq.	5	1	0	250	*23·2*	23·02	143	103
	5.—COLNE & c. 283 sq. mi.										
d	St. Osyth (Wigborough Wick)		P. B. Smith, Esq.	5	1	6	10	*19·3*	17·69	...	...
D	CLACTON-ON-SEA (Hospital Site)		The Town Clerk	5	1	0	68	20·5	17·64	143	104
D	Clacton-on-Sea (King's Road)		W. Tomlin, Esq.	5	1	0	30	...	18·34	137	105
D	Great Clacton (Clay Hall)		Miss E. A. Smith	5	1	0	45	*20·4*	17·83	140	104
D	Tiptree W.W.		S. Essex Waterworks Co.	5	1	0	239	...	23·00	160	115
D	Little Holland (The Sluice House)		Essex Rivers Catchm. Board	5	1	0	7	...	18·56	143	102
D	Colchester (Layer-de-la-Haye)		S. Essex Waterworks Co.	5	1	0	145	...	20·00	136	99
D	WALTON-ON-NAZE		Engineer and Surveyor	5	1	0	35	*20·2*	19·21	161	103
D	Colchester (Hythe Gas Works)		Colchester Gas Co.	8	1	1	0	*22·0*	20·60	134	103
D	Colchester (Castle Park)		J. S. Orchard, Esq., C.E.	8	1	2	87	...	19·74	145	99
D	Colchester (Waterworks)	(+A)	J. S. Orchard, Esq., C.E.	8	1	0	38	...	21·08	144	106
D	Lexden (Hill House)		S. F. Hurnard, Esq.	5	1	0	90	...	21·37	137	106
D	EARLS COLNE (Grammar School)		Headmaster	5	1	0	160	...	25·45	145	113
d	Ardleigh (Chancery Farm)		Mrs. Lloyd	5	1	6	120	...	19·60	...	..
D	Halstead (Attwoods)		R. E. Vaizey, Esq.	5	1	6	200	*23·6*	26·04	151	106
D	HALSTEAD (The Brewery)		F. N. Adams, Esq.	5	1	0	140	23·0	25·22	148	113
D	Sible Hedingham (Hovis Mill Farm)		A. A. Geater, Esq.	5	1	3	115	...	24·17	165	111
D	Great Yeldham Hall		G. A. Goodchild, Esq.	5	1	6	80	23·1	22·98	149	114
	6.—STOUR. 110 sq. mi.										
D	DOVERCOURT		Borough Surveyor, Harwich	5	1	0	47	21·1	18·67	156	106
D	Mistley (The Maltings)		Messrs. Brooks (Mistley), Ltd.	8	1	0	25	22·2	19·51	129	100
D	Nayland (Boxted Lodge)		R. Stour (Essex & Suff.) C. Bd.	5	1	2	160	...	21·62	134	101
d	Nayland (Boxted)		Messrs. Carter & Blewitt, Ltd.	5	1	0	154	...	21·02	143	102
D	Langham Waterworks		S. Essex Waterworks Co.	5	1	0	44	*22·0*	19·82	148	100

DIVISION IV—EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	ESSEX—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	7.—OUSE. 80 sq. mi.								
D	Quendon (Rickling)	Messrs Tinney & Hitchcock	5	1 0	325	...	23·54	146	117
D	Saffron Walden (Debden Road)	A. Marsh, Esq.	5	1 0	305	...	23·70	147	114
D	Saffron Walden (Bridge End)	R. A. Strong, Esq.	5	2 0	200	...	22·98	154	114
	SUFFOLK. (Area, 1,489 sq. mi.)								
	1.—STOUR. 271 sq. mi.								
D	East Bergholt (Ackworth House)	A. Harwood, Esq.	8	1 0	145	...	21·33	137	110
d	Little Cornard (Moss Cottage)	R. Stour (Essex & Suff.) C. Bd.	5	... ...	...	...	21·43	...	...
D	Sudbury (Edwardstone)	R. Stour (Essex & Suff.) C.Bd.	5	1 0	185	...	23·93	143	114
D	Hadleigh (Penlands)	E. A. Lee, Esq.	5	1 0	185	24·4	22·91	168	106
D	Haverhill Waterworks	J. H. Clarke, Esq.	8	0 9	280	...	25·23	146	109
D	Long Melford (Westgate House)	K. F. Colvile, Esq.	5	1 0	146	23·5	21·38	161	108
d	Long Melford (Stafford Works)	R. Stour (Essex & Suff.) C.Bd.	5	3 0	103	...	20·87	...	...
d	Clare (Little Wratting)	R. Stour (Essex & Suff.) C. Bd	5	0 9	296	...	25·19	...	103
D	Boxted Hall	R. Stour (Essex & Suff.) C. Bd	5	1 0	160	...	24·12	144	109
	2.—ORWELL. 166 sq. mi.								
D	Trimley (The Avenue)	R. L. T. Clarkson, Esq.	5	1 0	72	...	20·53	182	108
D	IPSWICH (BELSTEAD HALL) (+A)	Richard Wilson, Esq.	5	1 0	123	...	21·23	150	109
d	Ipswich (Upton Lodge)	E. Suffolk Riv. Catch. Bd.	5	1 0	77	...	20·93	147	117
d	‖Ipswich (Museum)	F. M. Cullum, Esq.	8	1 2	72	*23·5*	18·81	144	106
D	Elmsett (Laurel Cottage)	Miss C. E. Ladbrook	5	3 6	310	*23·8*	20·92	145	109
D	Nettlestead (High Hall)	A. S. Collett, Esq.	5	1 7	236	23·4	22·07	149	115
D	Coddenham (Cousins Hill)	Miss Tidswell	5	0 4	160	...	25·63	163	120
D	Haughley (New Bells Farm)	Lady Eve Balfour	5	1 0	210	...	23·57	150	109
	3.—DEBEN & C. 466 sq. mi.								
D	FELIXSTOWE (+A)	Meteorological Office	5	1 0	10	...	18·53	157	101
d	Hollesley P.S.	E. Suffolk Riv. Catch. Bd.	5	1 0	11	...	20·09	185	105
D	Waldringfield	Mrs. B. R. M. Glossop	5	1 0	50	*23·8*	20·86	150	110
D	Ipswich (Daleacre)	C. Harrison-Jones, Esq.	5	1 2	140	...	22·12	189	116
d	Woodbridge (Little Bealings)	Capt. Guy Lemprière	5	0 9	50	...	22·14	...	...
D	Great Bealings (The Croft)	Admiral E. F. Bruen, C.B.	5	0 7	50	...	23·62	170	121
D	Woodbridge (Warren Hill Road)	Mrs. J. B. Martin	5	1 0	100	...	23·17	144	111
D	Melton (Greylands)	Miss Jervis-White-Jervis	5	1 6	50	*24·3*	23·23	149	109
D	Melton (St. Audry's Hospital)	Clerk and Steward	5	1 0	90	*23·8*	21·54	136	108
D	Grundisburgh (Bridge House)	Mrs. Armstrong	5	1 1	50	...	21·89	157	112
	Grundisburgh (Green Bank)	late R. O. J. Dallmeyer, Esq.	5	1 0	100	...	22·96	137	...
D	Campsea Ashe (High House)	Viscount Ullswater, G.C.B.	8	1 0	60	*23·0*	22·03	130	104
	Charsfield (Red House)	Hugh P. Youngman, Esq.	5	1 9	150	*24·1*	22·79	...	...
D	Blaxhall	R. H. Sherwood, Esq.	5	1 0	50	*23·4*	22·71	150	111
D	§Aldeburgh (Iken Way)	G. E. Sunderland-Taylor, Esq	...	... ...	10	...	20·20	140	107
D	Saxmundham	M. F. Jennings, Esq.	5	0 5	95	...	23·96	137	109
d	Saxmundham Expt'l. Station	Agricultural Executive	5	0 6	100	...	22·00	...	...
D	Leiston (St. Mary's Abbey)	Miss M. K. Rope	5	1 0	30	...	20·48	137	100
D	Southwold	H. A. Liquorish, Esq.	8	1 0	0	...	23·15	132	109
	4.—YARE & C. 208 sq. mi.								
D	Harleston (Mendham Mills)	D. Connell, Esq.	5	1 0	49	...	22·90	158	108
D	BUNGAY (FLIXTON HALL)	Sir Shafto Adair, Bart.	5	1 0	79	*23·4*	21·86	154	103
D	LOWESTOFT (Secondary School)	Town Clerk	5	1 0	82	*23·5*	21·46	142	105
D	Herringfleet House	G. H. Wyllys, Esq.	5	1 0	55	*25·2*	23·51	189	119
D	Lound Pumping Station	Lowestoft Water & Gas Co.	8	1 0	33	*24·0*	21·23	158	106
D	Hopton (Hopton House)	Col. F. E. Walker, D.S.O.	5	1 2	100	...	20·89	140	102
d	Fritton Warren	Miss V. M. Upcher	5	1 0	42	*25·9*	21·53	...	105
D	Fritton Hall	Mr. F. Read	8	0 11	30	*24·7*	23·40	154	115

§ Turf wall round gauge. ‖ Gauge oversheltered.

DIVISION IV—EASTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	SUFFOLK— *contd.*).			*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	5.—OUSE. 378 sq. mi.									
D	Bury St. Edmunds (Corp. Depot)	(+A)	Borough Engineer	8	2 0	181	...	24·00	167	118
D	Newmarket (Sewage Outfall) ...	...	F. B. Waterfall, Esq. ...	5	1 0	81	23·2	23·76	140	117
d	Bury St. Edmunds (Westley Hall)	...	Mrs. Burrell	5	1 0	226	25·1	25·48	...	120
D	Bury St. Edmunds (Barton Lodge)	...	Mrs. S. Cox	5	1 0	200	...	23·65	141	118
D	Hengrave Hall	...	Sir John Wood, Bart. ...	5	1 5	85	*22·9*	23·64	148	123
D	Bury St. Edmunds (Troston Hall)	...	F. S. Beauford, Esq. ...	5	1 0	130	*23·0*	24·58	171	126
d	Mildenhall (Worlington) ...	...	Lord Sandhurst	5	1 2	30	...	25·14	...	...
D	MILDENHALL (Airfield) ...	(+A)	Meteorological Office ...	8	1 0	15	...	22·19	152	102
D	Mildenhall	...	Gt. Ouse Catchment Bd. ...	5	1 3	33	...	(21·79)	(173)	(107)
D	Isleham Lock	...	Gt. Ouse Catchment Bd. ...	5	5 2	10	...	22·42	147	114
	Barningham (The Beeches) ...	...	Miss A. K. Lingwood ...	5	0 9	136	*22·6*	22·23	...	...
D	Elveden Hall	...	The Earl of Iveagh, C.B. ...	5	1 0	130	*23·9*	22·02	157	116
	NORFOLK. (Area, 2,041 sq. mi.)									
	1.—YARE. 658 sq. mi.									
D	Diss (Roydon)	...	R. S. Copeman, Esq. ...	5	1 0	140	...	24·65	167	126
D	Diss (Bressingham Hall) ...	...	A. H. V. Bloom, Esq. ...	5	1 10	96	...	23·61	150	115
D	Pulham St. Mary (Brook House)	...	late E. Beevor, Esq. ...	5	1 0	125	...	24·39	168	115
	Harleston (Starston) ...	...	A. L. Taylor, Esq.	5	0 10	120	...	23·67	160	100
D	Pulham St. Mary (Hill House)	...	W. G. Rutter, Esq. ...	5	1 0	120	24·7	24·94	162	114
D	Ditchingham	...	W. G. Rutter, Esq. ...	5	1 0	25	23·9	23·76	153	113
D	Ashwellthorpe (Tacolneston Hall)	...	C. H. Walter, Esq. ...	5	0 9	200	...	23·58	142	108
D	Beccles (Raveningham Hall) ...	...	Lady Bacon	5	1 6	60	24·6	21·99	144	108
D	Hapton Parsonage	...	Lt.-Col. H. C. Copeman ...	5	1 0	120	...	22·51	138	102
d	Loddon (Chedgrave Manor) ...	...	F. J. Cannell, Esq.	5	2 2	21	24·2	21·22	...	...
D	Wymondham	...	J. B. Pomeroy, Esq. ...	5	1 3	118	...	23·32	156	116
D	Ketteringham	...	Mrs. E. Boileau	5	1 0	100	...	23·95	151	109
	Hardingham Hall	...	Col. B. M. Edwards* ...	...	... ...	100	...	26·04	...	...
D	Hingham (Southburgh) ...	...	R. W. Keatley, Esq. ...	5	1 4	190	...	26·43	192	117
D	GORLESTON (C.G. Station) ...	...	Station Officer (M.O.) ...	8	1 0	5	24·5	21·49	141	101
	Norwich (Bramerton Hall) ...	...	A. M. Blake, Esq.	5	2 0	95	...	25·00	...	...
D	Norwich (Carrow Abbey Gdns.)	...	The Misses Colman ...	5	1 0	40	25·2	22·98	150	109
D	Norwich (City Cemetery) ...	...	L. Alan Jewell, Esq. ...	5	1 2	93	25·5	21·80	164	114
D	Thorpe St. Andrew (Pine Banks)	...	H. J. Jarrold, Esq.	5	1 7	140	...	23·54	151	116
	Norwich (Marlingford Hall) ...	...	Major E. H. Evans-Lombe	5	1 3	83	26·9	21·51	156	105
	Great Fransham	...	Sir Stephen Renshaw ...	5	1 0	230	...	28·88	180	120
	Sprowston (Oak Lodge) ...	...	A. Cozens-Hardy, Esq.* ...	5	1 0	100	25·2	21·55	...	...
D	East Dereham (The Laboratory)	...	Leonard A. Pett, Esq. ...	5	1 1	300	...	23·75	146	103
D	WEST RAYNHAM...	...	Meteorological Office ...	5	1 0	240	...	26·36	172	114
D	Cawston (New Street)	...	N. B. Howard, Esq. ...	5	0 8	148	26·6	24·39	162	109
D	Fakenham (Wells Road) ...	...	W. H. Fisher, Esq. ...	5	3 0	9	...	25·68	152	103
	2.—YARE. Bure & c. 368 sq. mi.									
D	Norwich (SPROWSTON, Church Farm)		Director, Norfolk Ag. Stn.	5	1 0	93	25·7	20·86	162	104
D	Horsham St. Faith (Airfield) ...	...	Meteorological Office ...	5	1 6	99	...	20·50	163	109
D	Yarmouth (Ormesby St. Michael)	...	Gt. Yarmouth W.W. Co. ...	8	1 0	22	26·2	22·03	187	106
D	Yarmouth (Scratby)	...	Harvey Palmer, Esq. ...	5	1 0	70	...	21·51	147	106
D	Horning (Pumping Station) ...	...	Gt. Yarmouth W.W. Co. ...	8	1 0	9	...	23·93	160	108
D	Wroxham (Hoveton House) ...	...	Mrs. I. C. Blofeld	5	1 4	100	...	25·10	148	119
d	Wroxham (Hoveton Home Farm)	...	T. R. C. Blofeld, Esq. ...	5	0 9	32	...	22·33	...	103
D	Haynford (Grove Cottage) ...	...	J. C. Harrison, Esq. ...	5	0 7	50	...	23·32	134	108
d	Buxton (Dudwick)	...	C. E. Briscoe, Esq.	5	1 0	110	...	23·64	140	104
	Hevingham (Rippon Hall) ...	...	Rev. A. F. Marsham* ...	5	0 7	90	26·4	24·55	...	...

* *Per* Norfolk Rainfall Organization.

DIVISION IV—EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	NORFOLK—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	2.—YARE. Bure & c.—(*contd.*).								
	Hickling (Old Rectory)	Cdr. P. Barlow, R.N.*	5	1	0 ...	...	24·98	...	...
	Aylsham (Woodgate House)	Lt.-Col. P. W. Purdy*	5	1	0 100	...	25·55	...	...
D	Worstead (Lyngate Cottage)	G. Cross, Esq.	8	1	6 50	26·5	26·84	162	113
D	Aylsham (The Mount)	Dr. C. L. Maingay	5	1	0 90	...	25·27	165	109
D	Aylsham (Wilderness)	Mrs. J. Peed	5	1	0 10	...	26·27	162	119
D	Aylsham (Mill House)	R. L. Rust, Esq.	5	1	0 50	...	26·33	152	113
D	Blickling Rectory	J. W. Montgomery, Esq.	5	1	2 90	...	26·06	171	111
D	Hindolveston (School House)	The Headmaster	5	1	0 212	...	26·00	172	111
D	North Walsham (Worstead Lodge)	Lt.-Col. W. H. Besant	5	3	0 170	...	25·13	160	110
D	Melton Constable Park	Head Gardener	8	0	11 287	...	29·96	152	119
	3.—STIFFKEYS & C. 290 sq. mi.								
D	Sandringham House Gardens	Mr. C. H. Cook	5	1	6 121	26·4	26·42	184	118
D	Holt (Holt Lodge)	The Hon. W. H. Lascelles	5	1	0 210	...	25·34	154	123
d	Cromer (Northrepps Hall)	Lt.-Col. C. R. Gurney	5	1	0 226	26·7	22·38	...	108
D	CROMER (Howards Hill)	Clerk to the U.D.C.	8	1	0 178	23·8	20·40	148	97
D	Langham	Miss F. E. Butcher	5	0	9 134	...	24·76	166	106
D	Burnham Market	Mrs. Evelyn Buxton	5	0	10 50	...	24·51	154	115
D	Sheringham (Pine Grove)	T. E. Ormond, Esq.	5	1	0 70	...	25·96	190	111
	Sheringham (Sheringham House)	Rev. E. C. S. Upcher	5	1	0 150	...	25·76	175	125
D	§HUNSTANTON	Advancement Assn.	5	1	I 105	...	24·11	155	107
D	Holme-next-Sea (Holme House)	Mrs. S. C. Reed	5	1	0 10	...	23·08	157	106
	4.—OUSE & C. 709 sq. mi.								
D	Garboldisham Manor	Major E. W. Denny, D.S.O.	8	1	0 70	23·2	23·56	171	116
D	Thetford (Kilverstone Hall)	Baron Fisher of Kilverstone	8	1	0 70	21·7	25·38	169	113
D	Thetford Waterworks	L. G. Howell, Esq.	8	1	0 165	23·8	24·71	180	117
	Downham Waterworks	Downham R.D.C.	...	...	... ...	...	26·00	...	...
d	Attleborough (Breccles Hall)	J. E. Fitt, Esq.	5	0	6 120	...	24·93	...	...
D	Denver Sluice	Great Ouse Catchment Bd.	5	1	7 10	...	24·37	159	107
D	Denver (Crow Hall)	R. P. Bennett, Esq.	5	0	6 100	...	27·73	152	121
D	Downham (Dial House)	Messrs. T. H. Wenn & Co.	5	1	6 50	...	26·00	163	122
D	Outwell (Well Creek Sluice)	G. McLeod, Esq., C.E.	8	2	6 16	22·0	22·32	145	103
d	Stow Bridge (Crabb's Abbey)	R. D. Carter, Esq.	5	3	0 8	...	25·06	...	102
D	Narborough Hall	F. H. Ash, Esq.	5	1	0 45	...	25·22	168	117
d	King's Lynn (Narford)	G. F. Attwood, Esq.	5	1	0 53	...	26·52	...	108
D	Wiggenhall (St. Germans Sluice)	G. McLeod, Esq., C.E.	5	1	6 9	23·1	23·10	143	117
D	King's Lynn (North Runcton Lodge)	Capt. W. N. Gurney	5	1	0 60	...	25·35	175	117
D	Terrington St. Clement	H. W. Pooley, Esq.	5	0	11 15	...	26·16	171	119
D	Gayton Waterworks	H. G. Ridler, Esq.	5	1	0 131	...	23·99	155	113
D	King's Lynn (Manure Works)	W. J. R. Baxter, Esq.	5	1	2 0	...	22·85	137	100
D	King's Lynn (Freebridge)	Great Ouse Catchment Bd.	5	2	0 15	...	23·54	144	118
D	Grimston (School House)	J. R. Steward, Esq.	5	1	2 62	...	24·52	161	108

DIVISION V—SOUTH-WESTERN COUNTIES

	WILTSHIRE. (Area, 1,370 sq. mi.)								
	1.—LOWER AVON. 383 sq. mi.								
D	Upton Scudamore P.S.	A. E. Carr, Esq.	5	1	0 305	...	35·59	181	129
D	Westbury (Penleigh House)	Lt.-Col. G. M. Atkinson	5	1	0 220	...	36·59	148	123
D	Westbury (Wellhead)	Waterworks Engineer	5	1	8 314	...	31·58	174	114
D	Westbury (Braemar)	Mrs. F. D. Richards	5	1	0 250	...	33·83	179	116
D	WEST LAVINGTON (Dauntsey's School)	Headmaster	5	0	11 270	...	32·09	159	119

* *Per* Norfolk Rainfall Organization. § Turf wall round gauge.

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	WILTSHIRE—(*contd.*).			*in.*	*ft.*	*ft.*	*in.*	*in.*		
	1.—LOWER AVON—(*contd.*).									
D	Little Cheverell House		Dr. T. W. Newton Dunn	5	1	300	...	31·96	155	124
D	Market Lavington (Schoolhouse)		A. F. Burbridge, Esq.	5	0	290	29·0	30·98	172	123
D	Trowbridge (Town Hall)		Engineer	8	1	131	...	30·64	161	115
D	Bradford-on-Avon (Iford Manor)		Lt.-Col. Sir Michael Peto	5	1	101	...	36·56	176	129
D	Seend (Cleeve House)		Head Gardener	8	1	150	...	31·38	178	125
D	Holt (The Elms)		A. V. H. Beaven, Esq.	5	1	144	30·3	32·78	159	136
D	Great Chalfield		Major R. F. Fuller	5	1	165	28·6	33·74	180	128
D	Melksham (Forest Road)		I. Pothecary, Esq.	5	1	136	...	31·83	169	119
D	Bowood House		Baroness Nairne	5	1	306	...	34·66	164	131
D	CORSHAM (The Tynings)		W. A. Tolley, Esq.	5	1	310	...	32·79	167	124
D	Calne (Castle Walk)		P. W. Phillips, Esq.	5	1	240	*28·9*	36·03	173	143
D	Calne (Compton Bassett Rectory)		Rev. G. L. Deuchar	5	1	350	...	34·23	185	132
D	Chippenham Waterworks		Borough Surveyor	5	1	144	...	33·39	168	121
D	Chippenham (Monkton Park)		H. R. Coventry, Esq.	5	1	200	...	32·25	163	124
	Chippenham (Kington Langley)		Mrs. Garnett	8	1	172	30·3	34·71	...	...
D	LYNEHAM (Airfield)	(+A)	Meteorological Office	5	0	455	...	31·14	179	123
D	Chippenham (Littleton Drew)		J. D. Marriott, Esq.	5	5	418	...	31·76	162	130
D	Wroughton (Basset Down House)		Mrs. Arnold Forster	5	1	500	29·8	34·08	160	131
D	Tockenham Manor		Major G. J. Buxton	8	3	400	...	33·94	163	137
d	Malmesbury (Norton Manor)		Major N. S. Wilson	8	1	326	...	34·57	149	129
D	Malmesbury (Elm Leaze)		Miss E. Milnes-Walker	5	1	260	...	32·94	146	124
	2.—STOUR. 33 sq. mi.									
D	Sedgehill (Peakes Farm)		R. Fisher Crouch, Esq.	5	1	491	...	36·87	150	131
D	Mere (Charnage)		W. G. B. White, Esq.	5	1	426	33·8	40·57	172	137
D	Stourhead		Sir H. H. A. Hoare, Bt.	5	1	583	38·1	42·33	196	142
	3.—EAST AVON. 554 sq. mi.									
D	Shaftesbury (Donhead St. Mary)		B. H. Mottram, Esq.	5	1	530	...	38·06	171	134
D	Broad Chalke		Dr. H. N. Burroughes	5	4	362	...	37·65	159	125
D	Salisbury (Harnham)		Mrs. E. M. Taunton	5	1	200	...	36·28	168	126
D	Salisbury (Folkestone Road)		M. A. Chaplin, Esq.	5	0	200	...	33·98	163	121
D	Fonthill House Gardens		Major J. G. Morrison, M.P.	5	1	400	37·8	45·49	184	141
D	Salisbury (Sewage Works)	(+A)	S. R. Little, Esq., C.E.	8	1	147	29·7	32·57	167	112
D	Salisbury (Manor Road)		Miss L. C. D. Awdry	5	1	250	29·2	37·17	186	131
D	Salisbury (Atherton House)		Wilfrid Fletcher, Esq.	5	1	250	30·4	33·91	175	122
D	Wilton (Stone Lodge)		Major B. W. Parker	5	1	175	...	35·92	165	122
D	Salisbury (Dinton)		Mrs. Bovill	5	1	300	...	37·23	187	126
D	PORTON (W. D. Exp'l. Stn.)	(+A)	Supt. Met. Dept.	5	0	363	26·5	34·97	175	129
D	Steeple Langford (Woodstock)		Miss A. J. Powell	5	1	257	...	36·26	145	109
d	Wylye (Fisherton de la Mere)		Lt.-Col. F. N. Jeans	5	0	350	...	44·32	...	...
d	Maiden Bradley House		Duke of Somerset	5	1	620	38·4	40·36	...	134
D	AMESBURY (BOSCOMBE DOWN)	(+A)	Meteorological Office	8	1	417	...	30·46	167	114
d	Warminster (Crockerton P.S.)		W. H. Edwards, Esq.	5	1	460	...	38·55	...	...
D	Warminster (Henford)		Mrs. Robinson	5	1	400	...	34·24	172	128
D	Warminster (St. John's Lodge)		D. Vesey, Esq.	5	1	400	...	34·07	172	128
D	LARKHILL (School of Artillery)	(+A)	Meteorological Office	5	1	440	25·5	33·31	166	122
D	Shrewton (Maddington)		Miss V. L. Windsor	5	0	285	...	32·12	159	117
D	Everleigh Rectory		Rev. J. S. Macnutt	5	1	590	...	35·41	164	133
D	Woodborough (The Manor House)		Brigadier N. C. Lang	5	1	400	...	33·08	177	159
D	Pewsey (Oare)		Miss F. M. Peall	5	1	500	...	33·44	180	138
D	Bishops Cannings		R. J. Combes, Esq.	5	1	446	30·3	31·68	164	131
	4.—TEST. 77 sq. mi.									
D	Landford (Northlands)		Cedric R. Boult, Esq.	5	1	180	30·7	34·45	177	121
D	Ludgershall (Conholt Park)		Miss H. M. Gaskell	8	1	800	33·9	34·30	181	136

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	WILTSHIRE—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	5.—THAMES. Kennet. 169 sq. mi.								
D	Bishops Cannings (Shepherds Shore)	Devizes Gas & Water Dept.	8	2	1 564	...	35·89	193	136
D	MARLBOROUGH College	Headmaster	5	1	1 424	31·1	39·61	176	132
D	Ramsbury (Vicarage)	Rev. J. E. Soden	5	1	3 ...	...	41·83	166	146
D	Aldbourne (Manor House)	Capt. W. Brown, J.P. ...	5	1	0 435	...	36·47	187	140
	6.—THAMES. Cole and c. 154 sq. mi.								
D	Wroughton (Swindon W.W.)	J. B. L. Thompson, Esq., C.E.	5	1	3 448	...	32·79	161	126
D	Chiseldon (Hodson House)	A. Deadman, Esq.	5	0	9 560	29·0	34·22	184	136
D	Swindon (Osborne Street)	H. Cook, Esq.	5	1	0 322	...	31·07	163	127
D	Purton (Restrop House)	Col. A. Canning	5	1	3 444	27·7	29·53	153	119
	DORSETSHIRE. (Area, 983 sq. mi.).								
	1.—PARRETT. 61 sq. mi.								
D	Evershot (Melbury House)	Mr. W. G. Lee	5	2	0 460	38·7	45·46	166	125
D	Crewkerne (Chedington)	F. A. Highmore, Esq. ...	8	1	0 605	...	40·15	173	127
D	Sherborne (Sewage Disposal Works)...	C. E. Bean, Esq.	8	1	0 164	...	31·72	163	116
D	Sherborne Castle	Mr. Edwin Hill	5	1	0 195	32·5	33·58	167	118
D	Sherborne (Barton Gardens)	C. E. Bean, Esq.	8	1	.0 285	...	33·98	179	122
	2.—AXE. 25 sq. mi.								
D	Forde Abbey	G. D. Roper, Esq.	5	0	10 200	37·7	42·17	158	123
	3.—FROME & C. 501 sq. mi.								
D	PORTLAND BILL (Lighthouse) (+A)	Lightkeeper (M.O.) ...	8	1	0 32	25·2	24·59	155	110
D	Corfe Castle (Encombe)	The Hon. Sir Ernest Scott ...	5	1	0 200	...	31·72	153	119
D	WEYMOUTH (Westham)	Town Clerk	5	1	0 16	28·0	30·84	162	117
D	Swanage (Panorama)	E. Horncastle, Esq.... ...	5	1	0 120	...	30·08	158	114
d	SWANAGE	Clerk to the U.D.C. ...	5	1	0 14	...	29·22	...	111
D	Chickerell (Lower Putton)	A. H. White, Esq.	5	1	0 45	...	28·68	168	113
D	Steeple (Manor House)	Mrs. Swann	5	0	8 231	34·8	31·57	168	124
D	Corfe Castle (Mortons House) ...	Lt.-Col. A. R. Bond ...	5	1	6 100	...	33·17	168	127
D	Creech Grange	J. W. G. Bond, Esq., C.B....	5	1	0 228	37·1	34·85	198	133
D	Abbotsbury (West Street)	J. C. P. White, Esq. ...	5	1	6 147	29·2	31·27	135	114
d	Abbotsbury (West End)	The Earl of Ilchester ...	8	1	6 100	...	30·47	...	100
D	Upwey (Friar Waddon)	Engineer and Surveyor ...	5	1	0 215	...	27·63	161	112
D	Upwey (Higher Well)	Engineer and Surveyor ...	8	1	0 289	...	32·29	174	127
D	Warmwell	Weymouth W.W. Co. ...	5	1	0 134	...	36·26	164	131
D	Wareham (East Holme)	Miss L. S. Bond	5	1	0 23	33·9	33·69	152	124
D	Wareham (Binnegar Hall)	Mr. J. W. Hayward ...	5	1	0 65	33·8	34·56	163	118
D	Wareham (Stockford)	W. Bond. Esq.	8	0	11 65	33·4	32·96	162	119
D	Wareham (Trigon)	Mrs. L. Sturdy	8	1	4 60	32·1	32·01	164	113
D	Dorchester (Littlemayne)	E. R. Sykes, Esq.	5	1	0 200	...	38·09	178	147
D	Burton Bradstock (White House) ...	Major J. M. Wratislaw ...	5	1	0 40	...	33·39	149	121
D	Dorchester (South Court Avenue) ...	E. A. Sparks, Esq.	5	1	0 220	...	41·33	177	142
D	Dorchester Waterworks	Borough Engineer	8	1	0 312	36·6	41·37	183	130
D	Dorchester (Stinsford)	J. Wyndham Hull, Esq. ...	5	1	0 207	37·4	39·32	164	131
D	Dorchester (Birkin House)	Mrs. Weber	5	1	0 230	37·4	38·69	154	126
D	Bradford Peverell House	H. F. Middleton, Esq. ...	5	1	0 370	...	40·94	188	126
D	POOLE	Medical Officer of Health ...	5	1	0 18	...	29·36	155	115
D	Poole (Pitwines Gasworks)	Bournem'th Gas & Water Co.	8	1	0 8	...	30·91	142	116
D	Parkstone (Balmoral Rd.)	Mrs. P. V. Hall	5	1	0 75	...	33·14	175	122
d	Charminster (Brooklands)	K. P. Druce, Esq.	5	0	10 200	...	42·47	...	117
D	Branksome (Bourne Valley)	Bournem'th Gas & Water Co.	8	1	3 84	30·0	31·29	155	125

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	DORSETSHIRE—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—FROME & C.—(*contd.*).								
D	Branksome (Alderney Res.)	Bournem'th Gas & Water Co.	8	1 3	213	...	28·94	163	118
d	Lytchett Minster School	Headmaster	5	1 0	25	...	32·71	...	115
D	Lyme Regis (Penard)	Mrs. M. E. Peat	5	1 0	83	33·2	35·35	167	120
	Lyme Regis (The Haye)	C. T. Thring, Esq.	5	0 10	200	...	35·87	155	122
D	Bridport (Coneygar)	Bridport Waterworks Co.	5	1 0	110	32·9	34·23	150	123
D	Bridport (Shere)	W. A. Roberts, Esq.	5	1 0	90	...	33·32	157	119
D	Bridport (Symondsbury)	A. W. S. Rose, Esq.	5	1 0	83	...	33·23	149	115
D	Bridport (Ryall)	W. T. Bridges, Esq.	5	1 6	460	...	37·65	161	126
D	Bloxworth Heath (Research Nursery)	Forestry Commission	5	1 0	80	...	34·36	170	123
D	Puddletown Vicarage	Rev. Canon A. L. Helps	5	4 6	200	35·8	40·94	166	133
D	‖Bere Regis (Barrow Hill)	H. Galton, Esq.	5	1 2	240	32·9	33·15	153	115
D	Lytchett Matravers (Kit Robins)	H. Blanchard, Esq.	5	1 0	300	...	31·89	164	116
D	Wynford House	Mrs. Aldridge	5	1 0	410	43·5	45·68	160	133
D	Netherbury (The Chantry)	Lt.-Col. H. L. Kitson	5	1 0	150	35·2	40·98	170	131
D	Beaminster (Netherbury Court)	Mrs. S. W. Blacker	5	0 9	400	...	39·62	156	128
D	Beaminster (East Street)	W. A. Stiby, Esq.	5	1 0	183	37·6	42·70	173	130
D	Cerne Abbas (Long Street)	Capt. G. Jensen	5	1 0	375	...	44·02	171	132
D	Minterne	Col. The Lord Digby, D.S.O.	5	1 0	800	...	44·02	185	144
	4.—STOUR. 384 sq. mi.								
D	Lytchett Matravers School	Headmaster	5	1 6	300	...	33·32	150	119
D	Broadstone (Grange Road)	R. Nimmo, Esq.	5	1 0	160	...	31·92	175	128
D	Corfe Mullen (The Plantation)	A. J. Russell, Esq.	8	1 0	300	...	31·08	166	124
D	Wimborne (Corfe Mullen W.W.)	Waterworks Engineer	5	1 0	81	32·9	31·66	164	115
D	Wimborne (Stapehill)	W. J. Marchant, Esq.	5	1 0	95	...	30·44	162	116
D	Wimborne (Walsford Bridge P.S.)	Bournem'th Gas & Water Co.	8	1 3	70	...	32·46	162	122
D	Blandford (King's Road)	D. Blanchard, Esq.	5	1 0	195	...	34·06	169	118
D	Blandford (Bryanston)	Miss A. M. Jaques	5	1 0	185	...	39·64	174	136
D	Blandford (Letton)	Brig.-Gen. B. F. B. Stuart	8	1 7	200	...	38·09	154	132
D	Glanvilles Wootton (Manor Ho.)	H. B. Debenham, Esq.	5	0 9	250	35·2	37·15	168	126
D	Holwell (Little Westrow)	Miss H. A. Warry	5	1 0	252	34·4	38·66	178	132
D	Wimborne St. Giles (St. Giles Ho.)	The Earl of Shaftesbury, K.P.	5	1 6	165	33·4	33·88	146	120
D	Sturminster Newton (Stock Gayland)	Miss Blake	5	0 11	350	...	34·26	173	144
D	Child Okeford Manor	J. H. L. Glasbrook, Esq.	5	1 0	250	...	39·91	161	132
D	Stalbridge (Grove Cottage)	F. B. Harris, Esq.	5	1 0	320	...	38·36	179	138
D	Shaftesbury (St. Margaret's Marsh)	G. W. Payne, Esq.	5	2 2	180	...	34·63	152	123
d	Pentridge (Cobley)	F. B. Eastwood, Esq.	5	1 0	500	...	40·26	...	131
D	SHAFTESBURY (C.E. School)	Headmaster (M.O.)	5	1 0	680	...	38·12	186	135
D	Gillingham (Buckhorn Weston)	A. Cox, Esq.	5	1 0	220	...	32·60	176	126
D	Gillingham (Malt House)	Col. The Lord Basing	5	1 6	275	...	33·42	170	126
	5.—EAST AVON. 12 sq. mi.								
	SOUTH DEVONSHIRE. (Area, 1,707 sq. mi.)								
	1.—PARRETT. 7 sq. mi.								
	2.—TAMAR & C. 395 sq. mi.								
D	PLYMOUTH (MOUNT WISE)	(+A) Meteorological Office	8	1 0	82	...	35·87	178	138
D	PLYMOUTH (THE HOE)	Corpn. (G. H. Ivory & Part.)	8	1 0	117	36·7	36·53	198	139
D	Plymouth (Drake's Reservoir)	N. G. Elliot, Esq., C.E.	5	1 0	149	37·5	37·05	178	140
D	Plymouth (Freedom Fields)	Corpn. (G. H. Ivory & Part.)	8	1 0	208	39·4	37·42	199	140
D	Devonport (Rowdens Res.)	N. G. Elliot, Esq., C.E.	5	1 0	201	35·1	35·05	191	141
D	Plymouth (Hartley Reservoir)	N. G. Elliot, Esq., C.E.	5	1 0	321	39·9	39·77	189	148

‖ Gauge oversheltered.

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	SOUTH DEVONSHIRE—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	2.—TAMAR & C.—(*contd.*).								
D	Bickleigh (Roborough Reservoir)	N. G. Elliot, Esq., C.E.	5	1 0	548	46·2	49·18	219	159
D	Lee Moor House	R. Martin, Esq.	8	1 0	900	62·4	63·56	205	182
D	Roborough (Maristow Gdns.)	F. A. Tuck, Esq.	5	1 0	60	...	54·50	193	168
D	Sheepstor (Redstone)	N. G. Elliot, Esq., C.E.	5	1 0	760	59·0	66·77	219	186
D	Sheepstor (Burrator)	N. G. Elliot, Esq., C.E.	5	1 0	755	...	64·57	220	186
D	Sheepstor (Head Weir)	N. G. Elliot, Esq., C.E.	5	1 0	730	57·0	66·42	219	185
D	Dousland Reservoir	N. G. Elliot, Esq., C.E.	5	1 0	721	51·8	58·69	207	174
M	Dartmoor (Deancombe Farm)	N. G. Elliot, Esq., C.E.	5	1 0	807	...	69·36	...	...
D	Yelverton (Yarrow-Dousland)	R. R. Brown, Esq.	5	0 8	700	...	60·63	215	180
D	Yelverton (Uppaton)	Com.J.P.Burton,R.N.(Retd.)	5	1 0	605	...	54·80	216	178
D	Dartmoor (Lowery)	N. G. Elliot, Esq., C.E.	5	1 0	899	...	64·49	220	188
M	Dartmoor (Leather Tor Farm)	N. G. Elliot, Esq., C.E.	5	1 0	910	59·0	67·17	...	...
M	Dartmoor (Siward's Cross)	N. G. Elliot, Esq., C.E.	5	1 0	1074	69·7	82·21	...	...
D	Horrabridge (Dostabrook)	Mrs. M. F. Corpin	5	0 9	300	...	56·22	213	180
D	Whitchurch (Grenofen)	H. Chichester, Esq.	5	1 2	325	46·1	52·37	221	174
D	TAVISTOCK	T. H. Harris, Esq.	5	1 0	457	47·6	47·62	207	165
M	Dartmoor (Double Waters)	N. G. Elliot, Esq., C.E.	5	1 0	1165	64·2	72·68	...	...
D	Mary-Tavy (Blackdown)	H. K. G. Rogers, Esq.	5	1 0	855	...	62·87	196	179
d	North Brentor (Langstone)	T. M. Lashbrook, Esq.	5	1 0	800	...	51·68	...	163
D	Coryton Manor	T. Newman, Esq.	5	1 2	450	43·5	52·27	190	176
D	Lifton (Raddon Slope)	James Oke, Esq.	5	1 4	280	...	47·31	212	154
D	Werrington Park	Mr. R. M. Gregory	5	1 0	600	...	46·51	198	155
D	Ashwater Rectory	Rev. R J. D. Newhouse	5	1 0	480	42·6	47·49	197	165
D	Holsworthy (Bodmeyric)	Miss A. D. Rogers	5	0 11	476	42·3	46·74	197	168
	3.—ERM & C. 217 sq. mi.								
d	Stoke Fleming (Oversea House)	T. C. Fishburn, Esq.	5	1 6	200	...	38·00	...	141
D	Stoke Fleming (Windward)	Miss E. L. Garrett	5	1 0	380	...	42·06	201	147
D	Loddiswell (Alleron)	C. D. Wise, Esq.	5	0 7	300	...	44·41	182	157
D	Yealmpton (Torr)	Miss M. Wimbush	5	1 9	100	35·5	40·80	205	156
D	Yealmpton (Cross Park House)	Rev. Canon J. V. Yonge	5	1 3	150	...	41·26	195	150
d	Loddiswell (Hazelwood House)	Hon. Mrs. Peek	5	1 0	300	...	48·87	...	146
D	Wrangaton (Moorhaven Hosp.)	Corpn. (G. H. Ivory & Part.)	5	1 0	650	54·2	60·43	220	173
D	South Brent (Millswood)	Major-Gen. G. L. Raikes	5	1 0	400	...	61·86	206	165
d	South Brent (Beechfield)	J. A. Kingwell, Esq.	5	1 0	500	61·0	65·51	...	175
D	South Brent (Badworthy)	Miss D. B. Latham	5	1 2	550	64·4	73·91	194	181
D	South Brent (Didworthy San.)	Medical Officer	5	1 0	675	...	74·16	220	183
D	South Brent (Brent Moor)	W. E. Nicholls, Esq.	5	1 0	850	78·3	89·91	230	184
	Cornwood (Yealm Head No. 5)	W. H. Thompson, Esq., C.E.	5	1 0	540	...	60·62	175	168
	Cornwood (Yealm Head No. 1)	W. H. Thompson, Esq., C.E.	5	1 0	943	...	73·76	...	...
	‖Cornwood (Yealm Head No. 2)	W. H. Thompson, Esq., C.E.	5	1 0	1305	...	77·39	...	...
	Cornwood (Yealm Head No. 4)	W. H. Thompson, Esq., C.E.	5	1 0	1415	...	76·26	...	...
	4.—DART. 197 sq. mi.								
D	Dartmouth (Dean's Lodge)	P. F. Summers, Esq.	5	4 0	80	...	37·73	190	141
D	Dartmouth	Borough & Water Engineer	5	0 7	9	...	38·05	190	139
D	Brixham	Torbay Paint Co., Ltd.	5	2 0	164	...	36·71	163	131
D	Brixham (Combe Bank)	Sir H. Clayton, Bt.	5	6 6	115	36·7	38·49	185	135
D	Totnes (Dundridge Gardens)	Head Gardener	5	1 0	250	48·3	54·34	195	160
D	PAIGNTON (Victoria Park)	Town Clerk	8	1 0	12	...	39·46	173	141
D	Totnes (Walrond House)	W. J. Toope, Esq.	5	1 3	40	41·8	45·71	165	139
D	TOTNES (Dartington Hall)	J. B. E. Patterson, Esq.	5	1 0	100	...	45·33	181	144
D	Broadhempston (Sneydhurst)	H. S. Burbery, Esq.	5	1 6	200	...	40·37	191	138
D	Ashburton (West St.)	W. T. Hannaford, Esq.	5	1 0	236	51·7	54·66	180	142
D	Ashburton (Hele House)	Rev. M. H. Needham	5	0 7	350	...	50·20	183	143

‖ Gauge over-exposed on moor.

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	SOUTH DEVONSHIRE—(*contd.*).			*in.*	*ft.*	*ft.*	*in.*	*in.*		
	4.—DART.—(*contd.*).									
d	Ashburton (Place)		Mrs. E. Heron Varwell	5	0	400		53·33		145
D	Dartmoor (Fox Tor)		E. Rowlands, Esq., C.E.	5	1	1160		77·96	229	183
D	Dartmoor (Strane Valley)		E. Rowlands, Esq., C.E.	5	1	1180		72·40	230	183
D	Dartmoor (Swincombe)		E. Rowlands, Esq., C.E.	5	1	1047		74·03	212	179
D	PRINCETOWN (H.M. Prison)	(+A)	Governor	5	1	1359	81·9	90·36	224	194
W	Dartmoor (Cowsic Valley)		N. G. Elliot, Esq., C.E.	5	1	1323	76·7	83·67		
M	Dartmoor (Beardown Tor)		N. G. Elliot, Esq., C.E.	5	1	1582	76·6	83·38		
M	Dartmoor (White Tor)		N. G. Elliot, Esq., C.E.	5	1	1439		77·80		
M	Dartmoor (Devil's Tor)		N. G. Elliot, Esq., C.E.	5	1	1570		80·75		
M	Dartmoor (Cowsic Head)		N. G. Elliot, Esq., C.E.	5	1	1465		82·20		
D	Bovey Tracey (Hedge Barton)		Capt. W. K. Kitson	5	1	1137	59·2	56·63	191	149
	5.—TEIGN. 209 sq. mi.									
D	Torquay (Higher Lincombe Road)		G. N. Carleton-Stiff, Esq.	5	1	260		30·62	163	112
D	TORQUAY (Abbey Park)		Town Clerk	5	1	27	33·0	32·65	162	125
D	TEIGNMOUTH (Den Gardens)		Medical Officer of Health	8	1	20	31·8	31·12	162	121
D	Teignmouth (Hazledown Res.)		Engineer & Surveyor	8	1	425	32·4	33·16	169	141
D	Teignmouth (Shaldon Res.)		Engineer & Surveyor	5	1	213	34·9	33·59	163	129
D	Teignmouth (Landscore Res.)		Engineer & Surveyor	8	1	132	33·2	32·51	168	132
D	Kingsteignton (Firleigh Rd.)		M. B. B. Heath, Esq.	6	1	130		34·73	162	121
D	DAWLISH (The Lawn)		Engineer & Surveyor	5	1	18		30·14	166	122
D	Dawlish (Luscombe Castle)		Peter Hoare, Esq.	8	1	175	35·9	38·97	182	155
D	Chudleigh (Scotleigh)		J. P. Hepburn, Esq.	5	1	280		34·08	162	131
D	Hennock (Hazlewood)		R. P. Kitson, Esq.	5	1	650		42·86	218	148
D	Lustleigh (Sun Hill)		Mrs. H. Muir	5	1	650		40·02	185	144
W	Moretonhampstead (Bullaton)		Water Engineer, Torquay	8	1	928	42·2	46·27		
W	Moretonhampstead (Mardon)		Water Engineer, Torquay	5	1	837	42·3	44·04		
M	Chagford (Hurston Ridge)		Water Engineer, Torquay	5	1	1350		80·64		
M	Chagford (Toms Hill)		Water Engineer, Torquay	5	1	1500		89·64		
M	Chagford (White Ridge)		Water Engineer, Torquay	5	1	1650		90·87		
M	Chagford (Hemstone)		Water Engineer, Torquay	5	1	1350		89·81		
D	Christow (Kennick) No. 1		Water Engineer, Torquay	8	1	836	41·6	39·01	227	158
D	Christow (Kennick) No. 2		Water Engineer, Torquay	8	1	860		41·73	224	152
D	Chagford (Fernworthy)		Water Engineer, Torquay	5	1	1150		73·53	289	185
M	Chagford (Thornworthy Down)		Water Engineer, Torquay	5	1	1250		75·97		
M	Chagford (Crownhall)		Water Engineer, Torquay	5	1	1320		88·66		
W	Christow (Smithacott)		Water Engineer, Torquay	5	1	861	42·7	40·20		
W	Christow (Laployd)		Water Engineer, Torquay	5	1	1041	42·3	47·05		
D	Chagford (Thornworthy)		Miss W. H. Varwell	5	0	1175	59·6	75·52	239	185
D	Chagford (Teignworthy)		E. A. Courthope, Esq.	5	1	1000		58·35	221	168
D	Chagford (Denshams)		C. V. Somers Cocks, Esq.	5	0	650		53·44	211	151
D	Chagford (Huish)		Col. P. Hart Dyke, D.S.O.	5	1	590	*45·5*	51·70	209	149
D	Drewsteignton (Newton Barton)		C. A. St. George Moore, Esq.	5	1	700		37·33	188	134
	6.—EXE. 445 sq. mi.									
D	EXMOUTH (Waterworks Road)		Engineer U.D.C.	5	1	195	28·6	25·02	146	113
D	Exmouth (Filters, Salterton Road)		Engineer U.D.C.	8	1	195	31·5	30·17	175	124
d	Exmouth (Littleham)		W. Malan, Esq.	5	0	155		31·32		115
D	Exmouth (Filters, Capel Lane)		Engineer U.D.C.	5	1	240	30·3	30·86	177	127
D	Kenton (The Vicarage)		Rev. K. E. Alexander	5	1	100		32·25	169	124
D	Woodbury (Oakhayes)		E. S. Chattock, Esq.	5	1	200		32·47	148	124
D	Woodbury Salterton		R. Free, Esq.	5	1	200		32·28	173	125
D	Shillingford Rectory		Rev. C. L. O'Ferrall	5	1	200		31·18	173	120
D	Exminster (Trood House)		Lt.-Col. T. L. Ormiston	5	1	75		33·41	160	129
D	EXETER (COUNTESS WEAR)		A. O. Rowden, Esq.	5	1	110		29·94	168	127
D	Exeter (Hatfield Longdown)		C. Holman, Esq.	5	0	450	33·8	34·64	165	131

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	SOUTH DEVONSHIRE—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	6.—EXE—(*contd.*).								
D	Exeter (Heavitree)	W. N. Lavis, Esq.	5	1	0 112	...	29·50	178	120
D	Exeter (Devon and Exeter Inst.)	Librarian	5	13	7 155	30·5	28·15	117	109
	Exeter (The Close)	Rev. Canon D. McLaren	5	1	7 200	...	31·09	125	109
D	EXETER Airport	(+A) Meteorological Office	5	1	0 125	...	29·28	174	128
D	Rockbeare Manor	Mrs. D. M. Follett	5	0	6 180	30·7	27·10	144	102
D	Cheriton Bishop (Horslake)	L. Collings-Wells, Esq.	5	3	6 500	33·3	37·39	181	137
D	Broadclyst (Beaumont)	W. H. Leverton, Esq.	5	1	0 50	...	30·74	158	123
D	Crediton (Okefield)	Seymour F. Pope, Esq.	5	1	0 325	32·2	32·63	205	137
D	Copplestone (Coplestone House)	Com. W. Pope, R.N., D.S.O.	5	0	9 315	34·4	35·28	184	149
D	*Silverton (Parsonage Lane)	A. G. Smales, Esq.	5	7	6 300	...	33·23	172	144
D	Bradninch (Bowley Close)	Miss H. R. Hepburn	5	1	0 300	34·0	36·08	178	140
D	CULLOMPTON	Capt. N. T. Trezise, R.A.	5	1	0 202	35·3	39·43	209	153
D	Kentisbeare	A. E. Painter, Esq.	5	1	0 304	37·1	38·90	191	139
D	Tiverton (Halberton)	Miss M. G. Izat	5	1	6 300	40·8	36·65	193	130
D	Tiverton (Cowley Lodge)	E. G. Peirce, Esq.	5	2	6 250	37·3	38·93	177	136
D	Cullompton (Uffculme)	F. C. Doidge, Esq.	5	1	0 320	...	38·02	176	134
D	Tiverton (Bradleigh Down)	Lt.-Col. G. V. Hotblack	5	1	0 700	...	48·64	197	151
D	Culmstock (Woodgate Farm)	T. Langdon Hine, Esq.	5	1	0 550	...	36·57	188	139
	Hemyock Place	N. F. Hitchins, Esq.	5	1	1 835	...	40·44	...	...
D	Morebath Manor	Major F. R. Rothwell	5	1	0 600	44·3	49·36	207	168
	7.—AXE & C. 237 sq. mi.								
D	Budleigh Salterton (Braywick)	E. Fisher, Esq.	5	1	0 120	...	29·86	162	127
D	Budleigh Salterton (Knowle Hill)	Lt.-Col. J. B. MacFarlan	5	0	7 245	...	31·37	164	129
D	Budleigh Salterton	R. Jones-Bateman, Esq.	5	1	0 370	...	32·02	187	125
W	Budleigh Salterton (Squabmoor)	Engineer, Exmouth U.D.C.	5	1	0 267	31·9	29·64	...	...
D	Exmouth (Squabmoor)	J. H. F. Foster, Esq.	5	1	0 450	...	33·32	172	126
D	EAST BUDLEIGH (Breton Old Rec.)	Colonel O. M. Dyke	5	1	0 64	...	29·61	160	122
W	East Budleigh (Yettington Intakes)	Engineer, Exmouth U.D.C.	5	1	0 300	32·2	30·97	...	...
d	East Budleigh (Bicton Gardens)	W. L. McCaskie, Esq.	5	1	0 90	...	27·65	...	112
D	SIDMOUTH (U.D.C.)	Borough Surveyor	5	1	0 25	...	27·90	142	115
D	Sidmouth (Loretto)	S. Horsley, Esq.	5	1	6 115	...	32·56	174	126
D	Beer (Windyridge)	J. G. Sargent, Esq.	5	1	6 150	...	31·76	143	123
D	Seaton (Marlpit Lane)	H. S. Stewart, Esq.	5	1	0 150	...	34·56	165	133
D	Seaton (Homermead)	T. F. Tracy, Esq.	5	1	0 185	...	33·30	166	128
D	Seaton (Millmead)	Vice-Admiral Sir F. Pridham	5	0	8 35	...	31·30	165	122
D	Lyme Regis (Pinhay)	Ormsby Allhusen, Esq.	5	0	9 465	34·9	34·03	208	128
D	Sidbury (Court House)	V. C. Cave, Esq.	5	0	10 200	...	37·42	170	136
	Sidbury Manor	V. C. Cave, Esq.	5	1	5 350	...	36·21	...	...
D	Colyton (Colyford)	Mr. A. R. Forbes	5	0	9 100	...	36·20	166	133
D	Ottery St. Mary (Broad Oak)	Miss Tallant	5	1	2 300	...	34·88	190	138
D	Ottery St. Mary (Little Close)	P. M. Miller, Esq.	5	1	0 250	...	36·39	178	135
D	Ottery St. Mary (Broad Street)	W. D. Badcock, Esq.	5	1	0 170	36·3	36·77	162	131
D	Axminster (Kilmington)	Mrs. C. M. Saunders	8	1	6 210	...	41·01	148	129
D	Axminster (Gamberlake House)	Mrs. E. B. Bayley	5	1	6 120	...	41·43	166	125
D	Hawkchurch (Castle House)	A. H. Noble, Esq.	5	1	0 278	...	42·43	174	122
D	Honiton (Feniton Court)	Brig. P. B. E. Acland	8	0	10 235	36·4	37·22	183	152
D	Honiton (Black Lion Hotel)	R. Winterton, Esq.	5	1	0 400	...	44·91	193	140
D	Membury (Yarty House)	Major W. H. Shoolbred-Wilkin	5	1	0 245	...	42·31	173	129
D	Honiton (Cotleigh House)	Major J. M. Salusbury-Trelawny, M.C.	5	1	3 540	...	47·26	212	155
D	Stockland	R. T. Watkin-Williams, Esq.	5	1	0 300	40·5	47·24	163	147

* Exposure Unorthodox.

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	NORTH DEVONSHIRE. (Area, 898 sq. mi.)		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	1.—NORTH COAST STREAMS. 77 sq. mi.								
D	Croyde (Baggy Point)	Miss C. M. Hyde	5	1 0	40	30·1	30·75	152	118
D	Ilfracombe (Reservoir)	A. J. Westaway, Esq.	5	1 0	395	46·9	51·53	199	169
D	ILFRACOMBE (Bowling Green)	A. J. Westaway, Esq.	5	1 0	25	37·4	44·43	194	145
	2.—TAW. 442 sq. mi.								
D	Chulmleigh (Ashreigney Rectory)	Rev. R. Y. Holmes	5	0 6	590	...	40·94	188	149
D	Witheridge	Rev. J. A. S. Castlehow	5	1 0	600	38·9	37·16	199	155
D	East Anstey Rectory	Rev. J. S. Payne	5	0 9	750	45·7	49·87	197	173
D	East Anstey (Barton House)	Mrs. E. L. Hancock	5	1 0	760	...	51·99	175	164
D	Chittlehampton (Ridgedown)	T. R. M. Cardus, Esq.	5	1 0	240	...	41·53	192	157
D	East Anstey (Chiltons House)	L. B. Akers, Esq.	5	2 6	950	...	56·58	217	176
D	Bishops Tawton (Codden Hill)	E. F. Batten, Esq.	5	0 11	400	...	38·57	192	146
D	Swimbridge (The Old Cider House)	Capt. J. M. Brierley	5	1 0	450	...	45·07	207	163
D	Swimbridge (The Vicarage)	Rev. H. J. A. Rusbridger	5	1 0	250	...	42·93	196	164
D	West Buckland School	Headmaster	5	1 0	650	...	48·44	179	156
D	Barnstaple (Newport Vicarage)	Rev. H. L. Franklin	5	1 0	40	...	34·58	195	150
D	BARNSTAPLE (N. Devon Athenaeum)	Librarian	8	1 0	25	36·6	33·33	179	148
D	Barnstaple (Westaway)	Major O. L. Trechmann	5	1 0	140	39·0	38·72	178	149
D	Goodleigh (Chelfham Mill)	Lt.-Cmdr. J. K. Elliot, R.N.	5	0 11	145	...	47·71	194	168
D	Braunton (The Linhay)	J. E. Gladstone, Esq.	5	1 0	70	...	37·56	182	144
D	Challacombe	A. J. Westaway, Esq.	5	1 0	851	62·8	71·62	224	192
	3.—TORRIDGE. 342 sq. mi.								
M	Dartmoor (Cranmere Pool)	S. R. Harry, Esq., for M.O.	5	1 0	1845	73·5	92·80	...	...
M	Dartmoor (Newbridge)	S. R. Harry, Esq., for M.O.	5	1 0	1500	59·4	76·60	...	...
D	Okehampton Waterworks	Borough Engineer	5	1 0	860	...	56·55	205	171
D	Okehampton (Uplands)	Miss C. E. Burd	5	1 0	700	51·4	52·78	212	168
D	Winkleigh (Places)	R. A. B. Coad, Esq.	5	4 0	500	...	36·37	184	141
D	Torrington (Hillside)	W. R. Hooper, Esq.	5	1 0	337	39·3	33·04	180	151
D	Parkham (Melbury Reservoir)	A. Brewer, Esq.	5	1 0	515	54·6	56·03	210	172
D	Bideford (Jennett's Res.)	Borough Surveyor	5	1 0	62	40·8	37·63	183	144
D	Bideford (Gammaton Res.)	Borough Surveyor	5	1 0	350	...	37·48	184	150
D	Northam (Windmill Lane)	S. Welsford Pain, Esq.	5	1 0	200	...	35·64	188	144
D	Westward Ho! (Royal Golf Club)	Major A. Newton-King	5	1 6	10	34·4	36·56	165	151
	4.—WEST COAST STREAMS. 32 sq. mi.								
D	Hartland (Fosfelle)	R. H. Cook, Esq.	5	1 0	480	46·0	46·86	181	156
d	Clovelly Court	Clovelly Estate Co. Ltd.	5	0 9	300	...	51·07	...	166
D	HARTLAND POINT	Station Officer (M.O.)	5	1 0	299	...	33·64	183	142
	5.—EXE. 5 sq. mi.								
	CORNWALL. (Area, 1,363 sq. mi.)								
	1.—CAMEL & N.W. COAST STREAMS. 458 sq. mi.								
D	Crowan (Boswyn Res.)	Camborne Water Co.	8	1 6	511	47·6	51·24	210	173
D	Lelant (Ven Ayr)	Lt.-Col. C. Watson-Smyth	5	1 0	100	...	45·67	210	170
D	Lelant (Trevethoe House)	Mrs. Tyringham	5	1 1	50	44·4	42·68	192	156
D	St. Ives (Bussow Moor)	Borough Surveyor	5	1 0	390	48·6	45·14	202	157
D	St. Agnes (Church Town)	Dr. W. C. Whitworth	5	1 0	318	...	39·33	189	150
D	Zelah (Chyverton)	A. T. Holman, Esq.	5	1 2	320	...	38·28	189	150
	Newquay (Reservoir)	U.D.C.	5	1 0	214	33·4	32·90	...	...
D	NEWQUAY (Mount Wise) No. 1	U.D.C.	5	1 0	182	33·2	32·03	189	134
D	ST. EVAL (Airfield)	Meteorological Office	5	1 0	345	...	38·62	186	151
D	Bodmin (Castle Hill House)	Major Hare	5	0 8	484	49·4	50·41	206	164

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	CORNWALL—(*contd.*).		*in.*	*t.* *in.*	*ft.*	*in.*	*in.*		
	1.—CAMEL & N.W. COAST STREAMS—(*contd.*).								
D	Wadebridge (Trevanson)	Miss A. T. Skilbeck	5	1 2	200	...	43·78	215	157
D	Padstow (Cross Street)	J. W. V. Sheldon, Esq.	5	1 0	80	...	39·69	186	145
D	Trevone (Pentonwarra)	W. M. Lindley, Esq.	5	1 0	25	...	34·09	183	138
D	St. Minver (Trebetherick)	Miss D. M. Thomson	8	1 0	100	32·0	30·83	190	143
D	Camelford (Stannon Clay Works)	English China Clays, Ltd.	8	1 6	850	54·8	63·34	209	181
D	Camelford (Roughtor View)	D. W. Bogle, Esq.	5	1 0	700	...	59·23	229	176
D	Delabole	Delabole Slate Co., Ltd.	5	1 6	650	...	42·38	190	157
D	Bossiney	Mrs. J. Stephens	5	1 0	290	...	40·10	184	160
d	Boscastle (Welltown Manor)	Major A. L. Ashwell	5	1 0	300	...	42·09	...	...
d	Marhamchurch (Widcote)	Rev. C. G. Montgomery	5	1 0	34	...	33·80	...	...
D	BUDE (School House)	Clerk to the U.D.C.	5	1 0	50	33·4	35·97	194	156
	2.—FOWEY & S.E. COAST STREAMS. 620 sq. mi.								
D	THE LIZARD (C. Guard Stn.)	Station Officer (M.O.)	8	1 0	240	*33·3*	32·33	178	136
D	Ruan Minor (Poltesco)	A. A. Ironside, Esq.	5	0 10	150	...	41·27	197	151
D	Porthcurno	Cable & Wireless, Ltd.	5	1 0	180	36·2	36·30	177	143
	Mawnan Smith	Brig. Gen. H. D. Croft*	5	0 9	205	...	45·10	193	163
	Porthleven	J. J. Emmott, Esq.*	5	1 0	100	...	36·08	188	146
	Sithney (Tregathenen Res.)	Helston & Porthleven W. Co.	5	1 0	400	...	41·26	...	...
	Wendron (Boderwennack)	Helston & Porthleven W. Co.	5	1 0	458	...	46·10	183	156
D	Penzance (Trewidden)	Mrs. C. Williams	5	1 0	275	43·2	48·72	173	154
d	St. Michael's Mount	Lord St. Levan	...	... ...	50	...	33·31	...	...
D	PENZANCE (Morrab Gardens)	Town Clerk	5	1 0	55	40·9	42·83	198	150
D	Penzance (Trengwainton House)	Col. E. H. W. Bolitho, C.B.	8	1 0	400	46·4	48·43	204	162
D	GULVAL (Experimental Station)	Cornwall County Council	5	1 0	54	41·5	38·70	173	149
D	Wendron (Nine Maidens)	W. E. Benny, Esq.	5	0 10	700	...	53·40	191	176
D	FALMOUTH (OBSERVATORY) (+A)	Royal Cornwall Poly. Soc.	5	1 0	167	43·6	42·52	193	156
D	Penryn Reservoirs	Falmouth Corpn. W.W.	5	1 6	235	...	44·59	194	157
D	St. Mawes (Lawn Bank)	J. Stanley-Verde, Esq.	5	1 0	100	...	38·46	184	144
D	Devoran (Devoran House)	Rev. A. S. Rashleigh	5	1 0	50	...	44·00	201	147
D	Gwennap (Trevince)	C. H. Beauchamp, Esq.	10	1 0	240	45·5	46·89	198	162
	St. Day (Baldhu School)	W. H. Tamblyn, Esq.*	5	1 0	346	...	41·67	...	...
D	Truro (Tregolls)	Miss A. M. Rashleigh	5	1 0	65	41·6	43·08	189	151
D	Truro W.W. (Lower Tregurrow)	E. D. Lean, Esq.	5	1 0	71	42·2	45·96	236	174
D	St. Ewe (School House)	R. Barbary, Esq.	5	1 0	300	...	45·05	198	162
D	FOWEY	Town Clerk	5	1 0	94	...	35·19	178	139
D	St. Austell (Trevarna)	W. M. Coode, Esq.	5	1 0	300	45·8	47·79	208	165
D	St. Austell (Poltair Public Gdns.)	Engineer & Surveyor	5	1 0	312	...	47·08	203	168
D	St. Austell (Trethurgy)	Lantern China Clay Co., Ltd.	5	... ...	450	...	52·09	205	173
	Looe (Polperro Road)	C. S. Hooper, Esq.	5	1 3	410	...	46·43	243	172
	West Looe (Talland)	H. T. Curtis, Esq.	5	1 0	60	...	42·13	206	162
D	East Looe	W. D. Clague, Esq.	5	1 0	50	...	40·22	200	145
d	Downderry (The Watch House)	G. S. Sneyd, Esq.	5	1 0	100	...	38·13	176	148
D	Liskeard (Penmilder)	Miss D. P. Foster	5	1 0	260	...	49·70	219	168
D	Liskeard (Treventon)	E. R. Foster, Esq.	5	1 0	360	47·7	52·05	214	169
	3.—TAMAR & C. 279 sq. mi.								
D	Newton Ferrers	Lady Diana Abdy	8	1 0	400	...	49·10	207	165
D	§ST. MELLION (ELLBRIDGE EXP. STN.)	Horticultural Supt.	5	1 0	200	...	45·22	195	159
D	St. Mellion (Pentillie Castle)	Capt. J. G. Coryton	5	1 0	150	...	49·80	198	159
	Launceston (North Hill)	H. Landry, Esq.*	5	1 2	475	...	61·25	...	...
D	Launceston (Bastreet, North Hill)	S. E. Cornwall Water Bd.	5	1 6	800	...	58·20	201	172
D	Launceston (Landue)	Miss S. E. Tregoning	5	0 11	225	42·5	45·78	204	151
	Egloskerry (Tregeare)	Miss Lethbridge*	5	1 10	513	43·1	54·11	...	...
D	North Tamerton (Davies)	W. S. Bray, Esq.	5	3 9	390	35·9	31·72	188	142

* *Per* Cornwall Rainfall Association. § Turf wall round gauge.

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	CORNWALL—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	4.—INSULAR. Isles of Scilly. 6 sq. mi.								
D	ST. MARY'S (Coast Guard Stn.)	... Station Officer (M.O.) ...	8	1 3	163	31·9	33·07	205	134
D	Tresco Abbey	... Major A. A. Dorrien Smith	5	1 0	40	33·4	32·93	205	148
	Tresco (Rowesfield)	... Major A. A. Dorrien Smith	8	1 0	40	...	30·37?	...	...
	SOMERSET. (Area, 1,624 sq. mi.)								
	1.—LOWER AVON. 294 sq. mi.								
d	Wanstrow (The Manor Cottage)	... Mrs. E. Warburton... ...	5	1 0	465	37·7	44·33	...	...
D	Shepton Mallet (Pondsmead)...	... Lady Hobhouse	8	1 0	710	44·9	47·50	200	169
D	Frome W.W. (Egford) ...	... B. H. Parkes, Esq.	8	2 0	270	35·8	42·24	203	147
D	Mells (The Manor House) ...	... Mrs. R. Asquith	5	1 0	340	...	45·94	169	149
D	Binegar (Gurneyslade) ...	... Rev. R. A. Morey	5	1 0	588	43·3	48·73	205	166
D	Stratton-on-Fosse (Downside Abbey)	Rev. R. A. Morey	8	1 0	600	41·5	46·57	200	151
D	Stratton-on-Fosse (Greystones)	... R. Chivers, Esq.	5	1 0	650	...	47·30	175	142
d	Orchardleigh Park	... A. Duckworth, Esq. ...	8	0 9	303	32·8	40·82	...	...
D	Radstock (Ammerdown House)	... Mr. L. Sweeting	5	1 3	...	...	44·52	188	136
D	Chewton Mendip (The Priory)	... Earl Waldegrave	5	1 0	550	45·0	45·82	181	154
W	East Harptree (Pitt Farm) ...	... A. M. Paterson, Esq., C.E.	5	1 0	705	45·0	52·84	...	...
D	Midsomer Norton (Dymboro)	... Dr. A. Bulleid	5	3 0	350	35·8	40·83	173	138
D	Litton (Sherborne Reservoir) ...	(+A) A. M. Paterson, Esq., C.E.	5	1 0	340	40·0	45·68	190	155
W	Harptree Hill	... A. M. Paterson, Esq., C.E.	5	1 0	784	...	50·79	...	...
D	East Harptree (Harptree House)	... Lt.-Col. H. W. Kettlewell ...	5	0 8	345	43·7	50·53	205	161
W	East Harptree (Harptree Court)	... A. M. Paterson, Esq., C.E.	5	1 0	300	39·9	45·59	...	...
D	East Harptree (Townsend P.S.)	... Water Engineer	5	1 6	220	...	46·07	191	148
D	Hinton Blewett Manor... ...	... Maurice Church, Esq. ...	5	1 0	500	39·6	44·24	210	159
W	North Widcombe	... A. M. Paterson, Esq., C.E.	5	1 0	215	36·0	41·64	...	...
W	Chew Stoke (Heron's Green) ...	... A. M. Paterson, Esq., C.E.	5	1 0	179	36·2	44·83	...	...
D	Pensford (Sutton Court) ...	... Lord Strachie	8	1 0	280	37·7	41·90	201	149
D	Midford (Court Essington) ...	... E. H. Atchley, Esq. ...	5	2 6	450	...	34·43	192	139
D	Midford (Pumping Station) ...	... Combe Down W.W. Co., Ltd.	5	1 0	135	...	37·01	207	139
W	Chew Stoke (Walley Court) ...	... A. M. Paterson, Esq., C.E.	5	1 0	202	35·5	43·64	...	...
W	Ridgehill	... A. M. Paterson, Esq., C.E.	5	1 0	400	36·0	44·43	...	...
D	Chew Magna	... A. M. Paterson, Esq., C.E.	5	1 0	180	36·3	42·05	184	149
W	Winford (Upper Littleton) ...	... A. M. Paterson, Esq., C.E.	5	1 0	250	37·0	45·16	...	...
W	Chew Magna (Norton) ...	... A. M. Paterson, Esq., C.E.	5	1 0	430	...	42·92	...	...
D	BATH (Henrietta Park) ...	... Medical Officer of Health ...	5	1 0	67	30·3	32·34	170	130
D	Bath (Southstoke Road) ...	... P. Hambleton, Esq. ...	5	1 0	525	...	35·75	195	138
D	Bath (Monkton Combe) ...	... W. G. Lock, Esq.	5	1 6	450	30·3	31·04	188	129
D	Bath (Combe Lodge)	... Miss M. B. Clark	5	1 0	520	31·4	35·00	195	137
d	Bath (Statutory Hospital) ...	... Medical Officer of Health ...	5	1 0	520	32·8	30·61	...	121
D	Bath (Bathwick Grange) ...	... G. R. Marsh, Esq.	5	1 0	450	...	32·49	190	128
D	Bath (Camden Road)	... P.A. Laycock, Esq. ...	5	1 0	252	...	34·23	199	136
D	Bath (Mount Beacon House) ...	... Lady Stothert	5	1 2	450	31·5	33·16	200	133
d	Bath (1, Coburg Villas) ...	... J. R. Sparey, Esq.	5	1 0	260	...	33·83	159	131
D	Bath (7, Bathwick Hill) ...	... Rev. Preb. A. B. Burney, M.A.	5	0 6	220	...	33·19	170	142
d	Bath (37, Bathwick Hill) ...	... M. J. Lipscombe, Esq. ...	5	1 2	215	...	36·52?	...	132
D	Bath (Charlcombe)	... Bath Corporation W.W. ...	5	1 6	325	31·4	35·67	174	133
D	Bath (Kingwood School) ...	... W. P. Cooke, Esq.	5	1 2	580	...	41·71	179	150
W	Felton (Upper Town)	... A. M. Paterson, Esq., C.E.	5	1 0	550	38·2	43·05	...	...
D	Bath (Hamilton Road) ...	... Miss J. Macnab	5	1 6	500	...	35·90	153	132
D	Batheaston (Mumfords) ...	... G. Lipscomb, Esq.	5	1 2	200	...	33·66	163	134
D	Batheaston Reservoir	... Bath Corporation W.W. ...	5	1 0	248	31·1	34·29	188	133
D	Keynsham (Somerdale) ...	... Messrs. J. S. Fry & Sons, Ltd.	5	1 0	58	...	35·39	181	135
D	Barrow Gurney Reservoir ...	... A. M. Paterson, Esq., C.E.	5	1 0	300	36·2	39·15	176	137

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in or more
	SOMERSET—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	1.—LOWER AVON—(*contd.*).								
D	Lansdown	Bath Corporation W.W. ...	5	1 0	380	...	36·12	184	144
D	BRISTOL (AIRPORT) ... ... (+A)	Meteorological Office ...	5	1 0	209	...	39·03	182	136
D	Long Ashton (School House) ...	J. B. Randall, Esq.	5	0 5	161	...	38·70	199	150
D	LONG ASHTON (Research Station) ...	The Director	8	1 0	162	34·1	39·05	198	142
D	Failand House	H. G. Tanner, Esq.... ...	5	1 0	380	34·6	39·43	177	147
	2.—YEO, AXE & BRUE. 405 sq. mi.								
D	Bruton (Great Down Cottage) ...	F. K. Makins, Esq.... ...	5	1 0	280	...	32·81	179	129
	Bruton (South Brewham)	G. E. May, Esq.	5	1 0	350	...	37·99	...	...
d	Street (Low Level Reservoir) ...	The Surveyor (U.D.C.) ...	5	1 0	100	...	29·16	...	138
D	Street (Hindhayes)	Bancroft Clark, Esq. ...	5	1 6	78	28·8	29·32	208	127
d	Street (Sewage Farm)	The Surveyor (U.D.C.) ...	5	1 0	18	...	30·33	176	129
D	Street (Millfield)	Bancroft Clark, Esq. ...	5	1 1	100	28·8	31·32	184	129
D	Ashcott (Bradley Cottage)	F. H. Thomson, Esq.* ...	...	... ...	...	...	28·87	173	127
D	Glastonbury (Bere Lane)	Mrs. Mee	5	0 8	100	...	34·79	209	145
D	Edington...	Major A. C. F. Luttrell ...	5	1 6	90	31·2	32·28	184	143
D	Bridgwater (R.O.F.)	The Superintendent ...	8	1 0	20	...	28·55	179	114
	Cossington (Gold Corner)	H. Leeming, Esq.*	5	1 0	12	...	29·51	...	...
D	Shepton Mallet (Charlton)	C. E. Burnell, Esq., J.P. ...	5	1 0	481	38·8	42·96	209	162
D	Shepton Mallet (Field House) ...	Sir Frederick Berryman ...	5	1 0	500	38·6	43·82	184	155
D	Highbridge (Bason Bridge)	Wilts. United Dairies ...	5	1 0	17	...	31·02	177	131
d	Wells (Wookey Hole Paper Mills) ...	W. S. Hodgkinson & Co. ...	5	1 4	140	...	33·97	...	...
D	Wookey Hole (Elm Batch)	W. Speed, Esq.*	5	0 10	238	...	38·00	174	154
D	Burnham (Dunstan House)	Miss A. E. Smith-Spark ...	5	1 0	20	29·1	31·00	182	139
D	Burnham	Surveyor	5	1 0	24	28·5	29·13	162	127
D	Burnham (Berrow Road)	Miss M. Robinson	5	1 0	10	29·2	28·43	160	122
D	Cheddar (Pumping Station)	A. M. Paterson, Esq., C.E.	5	1 0	50	33·6	37·53	187	145
w	Charterhouse	A. M. Paterson, Esq., C.E.	5	1 0	619	43·2	48·87	...	...
D	Winscombe (Mendip View)	C. Gibbins, Esq.	5	1 0	100	...	37·86	190	151
w	Compton Martin	A. M. Paterson, Esq., C.E.	5	1 0	276	42·4	48·59	...	...
d	Winscombe (Sidcot School)	The Headmaster	5	0 6	250	...	38·88	...	144
w	Ubley (Rookery Farm)	A. M. Paterson, Esq., C.E.	5	1 0	525	44·9	50·90	...	...
D	Winscombe (Wintrath)...	D. B. Grubb, Esq.	5	1 0	290	35·8	38·45	180	148
w	Blagdon Hill	A. M. Paterson, Esq., C.E.	5	1 0	550	40·6	48·68	...	...
D	Blagdon (Pumping Station)	A. M. Paterson, Esq., C.E.	5	1 0	112	37·0	42·34	180	147
w	Blagdon (Coombe Lodge)	A. M. Paterson, Esq., C.E.	5	1 0	388	39·6	47·81	...	...
w	Nempnett (West Town)	A. M. Paterson, Esq., C.E.	5	1 0	263	36·3	41·45	...	...
w	Burrington (Burrington Links) ...	A. M. Paterson, Esq., C.E.	5	1 0	335	38·1	44·05	...	...
D	WESTON-SUPER-MARE (Clarence Pk.)	Medical Officer of Health ...	5	1 0	28	29·9	34·76	167	127
w	Butcombe (Cholwell)	A. M. Paterson, Esq., C.E.	5	1 0	370	38·9	44·60	...	...
D	Yatton Pumping Station	Long Ashton, R.D.C. ...	5	0 10	18	...	37·41	189	134
D	Yatton (Chelvey)	A. M. Paterson, Esq., C.E.	5	1 0	60	32·5	39·72	187	143
D	West Town	Theodore Robinson, Esq. ...	5	2 0	80	34·6	38·23	190	144
D	Clevedon W.W. (Tickenham Rd.) ...	Waterworks Engineer ...	5	1 6	50	31·2	36·32	173	141
D	Wraxall Court	Head Gardener	5	0 10	200	...	36·68	181	146
D	Walton-in-Gordano	Lt.-Col. Sir Chas. Miles, Bt.	5	0 9	80	...	35·79	209	137
D	Portbury (The Farm)	J. Giles, Esq.	5	1 0	50	...	38·17	156	142
D	Portishead (Bristol Road)	Portishead Dist. Water Co.	5	1 6	24	34·9	33·78	168	142
D	Portishead (Redcliffe Bay)	A. E. Heaven, Esq. ...	5	1 0	200	...	36·58	168	138
	3.—PARRETT. 568 sq. mi.								
D	Chard (Fairlawn)	A. Austin, Esq.	5	1 0	373	...	43·15	184	131
D	Chard (Snowdon)	A. J. Dening, Esq.	5	1 0	400	...	47·47	153	142
D	Crewkerne (The Reservoir)	Surveyor	8	1 0	426	33·7	38·58	151	132
D	Crewkerne (Bincombe House) ...	R. A. Russell, Esq. ...	5	1 2	293	34·7	37·75	157	118

* *Per* Mid-Wessex Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam	Height of Rim above Ground	Height of Ground above Sea Level	Ave ag Rain-fall	1948 Rain fall	Days with ·01 in. or more	Day with ·04 in. or more
	SOMERSET—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	3.—PARRETT—(*contd.*).								
D	Chaffcombe House	Mrs. Noblett	5	0	10 400	33·1	40·46	181	135
D	Hardington Mandeville	L. Dawson Campbell, Esq.	5	1	0 400	...	43·13	177	137
d	Yeovil (Southwoods)	R. M. Argles, Esq.	5	0	10 150	...	35·95	...	...
D	Yeovil (Grass Royal School)	The Headmaster	5	0	6 200	...	33·69	153	121
D	Yeovil (Pen Mill Sewage Works)	Medical Officer of Health	5	1	0 102	30·6	36·53	177	129
D	Pitminster (Blagdon Hill)	G. L. Sidey, Esq.	5	0	10 650	...	45·78	210	153
D	Angersleigh (Leigh Reservoir)	Taunton Waterworks	8	1	0 530	...	42·84	173	141
D	Bickenhall (Forest Drove)	A. H. Turner, Esq.	5	1	10 250	...	38·57	199	132
D	Wellington (Payton House)	Miss M. F. Mathias	5	0	11 230	...	39·03	186	139
D	Ashbrittle (Kyrle)	Major J. H. Mathias	5	0	9 525	...	40·41	205	135
D	Martock Vicarage	Prebendary Saunders	5	0	9 61	29·6	30·59	169	115
D	Wellington (West Buckland)	D. R. Choppell, Esq.	5	1	0 200	...	36·78	171	108
D	Trull (Wayside)	A. Eastwood, Esq.	5	1	0 135	...	34·92	188	126
D	Rimpton (Pound House)	Miss A. A. Gegg	5	1	0 140	...	30·21	190	128
D	Taunton (Vivary Park)	Medical Officer of Health	5	1	0 71	29·5	30·53	189	124
D	Queen Camel (England's Side)	Mrs. Brendon*	5	1	0 100	...	31·06	180	136
d	Taunton (St. George's Rectory)	Canon R. A. Iles	5	0	7 90	...	32·39	...	117
	Taunton	Miss M. G. Colthurst*	5	0	8 55	...	33·25	...	...
D	Milverton (Spring Grove)	J. O. Lloyd, Esq.	5	1	0 640	36·7	40·98	228	147
	Langport (Drayton)	E. Dabinett, Esq.*	5	1	0 46	...	30·08	...	...
D	Wiveliscombe (Culverhead)	Lt.-Col. H. Jefferys Taylor	5	1	0 450	39·6	43·97	169	141
D	Langport (The Grange)	Miss V. M. Page	5	1	0 50	...	29·10	180	119
D	Langport (County School)	H. G. Jefferies, Esq.	5	1	0 65	28·1	30·28	181	118
D	North Cadbury	H. R. Watson, Esq.	5	1	0 250	...	37·14	206	146
D	Somerton (The Grange)	R. W. Pretor-Pinney, Esq.	5	1	0 106	27·8	28·04	174	123
D	Wiveliscombe (Bulland Lodge)	Air V.-M. A. J. Capel, C.B.	5	1	1 790	...	48·11	206	155
D	Bishop's Lydeard (Ash Priors)	H. Ross, Esq.	5	0	8 200	...	34·93	191	132
D	Kingston St. Mary (Tarr Cottage)	Mrs. Shattock	5	1	0 275	...	33·68	184	139
d	Bishop's Lydeard (Watts House)	Sir Gerald Boles, Bt.	5	1	0 320	...	33·38	...	125
	Babcaty (The Cedars)	D. R. May, Esq.	5	1	0 150	...	29·44	...	...
	West Sedgemoor Pumping Stn.	Somerset Rivers C. Bd.*	5	1	0 25	...	27·61	...	...
	Taunton (East Lyng)	J. T. Ames, Esq.*	5	1	0 43	...	30·60	...	...
	North Barrow (Orchards)	M. M. Tabor, Esq.*	5	1	0 170	...	30·70	...	...
d	Lydeard St. Lawrence	Mr. S. Pole	5	0	11 352	36·4	39·45	...	...
	Castle Cary	W. Davis, Esq.	5	1	0 290	...	32·69	...	...
	Bridgwater (Northmoor P.S.) (+A)	V. H. Bawdon, Esq.*	5	1	0 23	...	28·71	178	124
	Bridgwater (Enmore)	Capt. H. H. Broadmead*	...	...	... 200	...	30·25	...	...
	Bridgwater (Durleigh)	R. A. Watson, Esq.*	8	1	0 46	29·8	29·86	...	...
	Bridgwater (Blake Gardens)	R. A. Watson, Esq.*	5	3	1 27	28·5	31·93	...	...
	Bridgwater (Wembdon Hill)	Mrs. M. L. Colthurst*	5	1	0 110	...	27·38	...	...
	Bridgwater (Wembdon)	E. L. Kelting, Esq., C.E.*	5	1	6 47	...	28·73	...	...
D	Over Stowey (Plainsfield)	Lord St. Audries	5	0	10 400	...	38·12	186	141
	Spaxton (Dore House)	Dr. G. L. Lyon-Smith	5	0	9 176	...	35·41	...	...
D	Over Stowey (Quantock San.)	Medical Superintendent	5	1	0 500	35·0	40·15	159	138
D	Cannington (Ashford W.W.)	R. A. Watson, Esq.	5	1	1 102	31·4	31·46	...	...
D	Over Stowey	H. L. Butt, Esq.	5	1	0 550	...	41·17	219	150
D	CANNINGTON (Som. Farm Inst.)	Principal	5	1	0 95	...	30·86	185	130
D	Bridgwater (Fiddington)	J. M. Lee, Esq.*	5	1	0 100	...	34·82	...	...
	4.—NORTH COAST STREAMS. 158 sq. mi.								
D	Williton (Catwell)	F. S. Hayne, Esq.	5	1	0 75	...	35·00	182	132
d	Holford (Dyche)	Lord St. Audries	5	1	0 280	...	36·75	184	136
	Holford	E. L. Kelting, Esq.*	5	1	0 350	...	35·43	...	...
d	W. Quantoxhead (St. Audries Rectory)	Rev. E. L. Miller	5	0	11 200	...	33·39	...	...
	Stogursey (Sowdens)	Rev. A. J. Hook	5	1	0 150	...	31·49	...	...

* *Per* Mid-Wessex Rainfall Association.

DIVISION V—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·01 in. or more
	SOMERSET—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	4.—NORTH COAST STREAMS.—(*contd.*).								
D	Kilve Court	Mrs. Cooke-Hurle	5	1 0	150	30·0	33·91	209	135
d	Kilve (Corner Close)	Major H. J. Cann	5	0 9	350	...	36·40	...	124
D	East Quantoxhead (The Rectory)	Mrs. F. L. Aldridge	5	1 0	130	...	35·25	184	135
D	Watchet (Chapel Cleeve)	G. S. Lysaght, Esq.	5	... ...	90	...	34·07	181	124
D	Stogursey (Fairfield House)	Lord St. Audries	5	1 0	150	31·1	33·29	198	132
	Bridgwater (Stockland Manor)	A. Dimes, Esq.*	5	1 0	90	...	31·84	...	...
D	Carhampton (The Croft)	E. W. Darby, Esq.	5	1 0	100	...	38·94	196	149
D	Dunster Castle Gardens	Mr. C. L. Baldwin	8	1 0	100	...	37·64	190	143
D	Dunster (County School)	P. R. Day, Esq.	5	1 0	160	32·2	36·90	184	142
D	Minehead (Dunkery Lodge)	Rev. E. P. Liddon	8	1 0	15	...	36·40	224	135
d	Porlock (Hacketty Way)	H. K. Reeves, Esq.	5	1 0	200	...	44·56	...	120
D	Stolford (Whitewick Farm)	C. Mackenzie, Esq.	5	0 9	10	...	31·24	198	119
D	Minehead (Blenheim Gardens)	Engineer & Surveyor	5	1 0	37	33·4	33·65	167	129
D	Minehead (Weirfield)	Rev. A. G. Robinson	5	0 11	110	...	33·55	192	138
d	West Porlock House	Mrs. G. Blathwayt	5	1 6	40	42·7	43·81	...	132
D	Culbone (Lillycombe)	E. T. MacDermot, Esq.	5	1 0	1210	51·4	62·52	220	185
	5.—EXE. 122 sq. mi.								
D	Churchstanton (Stapley)	Miss C. M. V. Church	5	1 0	600	...	42·56	206	158
D	Exbridge	Exe Valley Fishery Ltd.	5	2 6	400	43·3	48·33	187	158
D	Brushford Nurseries	Mr. G. Ruff	5	1 0	450	43·8	50·31	199	172
D	East Anstey (Dassels)	Major Farquhar	5	1 0	850	...	50·37	216	171
D	Dulverton (C.E. School)	C. J. R. Weaver, Esq.	5	0 9	550	47·8	46·31	187	162
D	Winsford	Capt. R. S. Le Bas	5	1 0	620	54·3	58·75	208	168
D	Winsford (Howtown House)	W. H. Hawker, Esq.	5	1 6	700	...	57·32	203	163
D	Simondsbath (Honeymead)	Sir Robert Cohen, K.B.E.	5	1 0	1250	...	70·19	228	181
	6.—AXE. 42 sq. mi.								
D	Wayford Manor	H. L. P. Baker, Esq.	5	0 10	425	...	42·07	164	137
	7.—STOUR. 35 sq. mi.								
	Henstridge	Mr. P. Parsons*	5	1 1	256	...	35·55	...	...
	Temple Combe Rectory	The Rt. Rev. Bishop G. W. Wright*	5	1 4	250	34·9	36·95	...	...

DIVISION VI—WEST MIDLAND COUNTIES

	GLOUCESTERSHIRE. (Area, 1,237 sq. mi.)		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	1.—WYE. 50 sq. mi.								
D	St. Briavels (Wyeside)	Major H. J. Le Mare	5	1 0	450	...	45·01	176	129
D	Redbrook Pumping Station	C. W. D. Ward, Esq.	5	1 0	225	...	37·86	172	132
D	Forest of Dean (Reddings Lodge)	Forestry Commission	8	1 3	650	...	37·05	169	126
D	Forest of Dean (Mailscot Lodge)	Forestry Commission	8	1 3	630	...	38·23	202	146
	2.—SEVERN. Right Bank Tributaries. 185 sq. mi.								
d	Forest of Dean (Blakeney Hill Lo.)	Forestry Commission	8	1 6	550	31·6	33·92	...	...
D	Forest of Dean (PARKEND)	Forestry Commission	8	1 0	325	...	41·48	180	141
D	§Coleford (Cannop Colliery)	Manager	5	1 0	330	...	37·90	178	134
D	Forest of Dean (Serridge Lodge)	Forestry Commission	8	0 10	600	...	36·57	161	130
d	Forest of Dean (Edgehills Lodge)	Forestry Commission	8	1 0	915	...	33·51	...	121
D	Newent (Taynton)	M. Philips Price, Esq.	5	1 0	60	29·3	30·12	171	127
d	Bromsberrow Heath Pumping Stn.	Malvern U.D.C.	5	1 0	181	26·2	29·90	...	111
D	Tewkesbury (Forthampton Court)	Mr. B. Webster	5	1 0	48	26·9	26·19	160	119
D	Tewkesbury (Upper Lode)	H. J. Minett, Esq.	5	0 8	41	25·2	24·52	166	118

* *Per* Mid-Wessex Rainfall Association. § Turf wall round gauge.

DIVISION VI—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rain fall	1948 Rain-fall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	GLOUCESTERSHIRE—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—SEVERN. Left Bank Tributaries. 369 sq. mi.								
D	Thornbury (Thornbury Park)	Capt. R. A. Bennett	5	1 3	70	32·2	36·90	179	136
D	Alderley (Cordwalles)	C. H. Ledward, Esq.	5	1 0	300	...	33·65	179	119
D	Tortworth School	J. R. Organ Esq.	5	1 6	264	31·8	35·05	158	129
D	Wotton-under-Edge (Bournstream)	Lt.-Col. B. S. Browne	5	1 8	300	...	37·29	162	119
D	Berkeley Castle Gardens	Mr. T. B. Ashbee	5	1 6	60	29·1	34·83	164	129
D	Dursley (Cam)	H. Thrower, Esq.	5	1 0	250	...	35·83	173	128
D	Minchinhampton (The Shard)	E. H. Denne, Esq.	5	1 0	495	...	37·35	182	138
D	Minchinhampton (Rectory Cottage)	F/Lt. G. W. Fisher	5	1 0	610	33·9	37·74	194	138
d	Chalford W.W.	Stroud W.W.	5	2 0	220	...	35·12	167	127
d	Frocester Manor	Capt. J. E. H. Graham-Clarke	5	1 0	80	...	27·43	...	...
D	Stroud (Oakridge)	Hon. Sir Stafford Cripps, K.C.	5	1 0	550	...	38·21	199	138
D	Stonehouse (Wycliffe College)	W. A. Sibly, Esq.	5	1 0	135	29·0	31·33	153	116
D	Stroud (RUSCOMBE)	Captain B. D. Parkin	5	1 0	610	...	35·62	183	128
D	Miserden Park	Agent	5	1 3	800	...	40·94	203	148
D	Whitminster (The Junction)	E. Perry, Esq., C.E.	5	1 0	32	...	33·32	164	130
D	Haresfield Court	G. B. Heywood, Esq.	5	1 0	100	30·2	32·65	174	125
D	Painswick (Verlands)	Lady Sleeman	5	1 0	450	...	37·63	182	135
D	Harescombe Grange	Mrs. Stamford Hutton	5	1 0	557	29·3	34·58	171	133
D	Cranham (Woodside)	J. H. Edwards, Esq.	5	1 5	650	...	36·56	192	130
D	Witcombe Reservoir	J. H. Goodridge, Esq., C.E.	8	1 0	297	29·2	32·51	176	128
D	Brockworth (The Kia)	Mrs. Grace Buckle	5	1 4	220	27·1	31·63	168	110
D	Gloucester (The Lannett)	R. H. Ellis, Esq.	5	1 3	56	26·6	28·53	161	119
D	Gloucester (Llanthony Lock)	H. J. Minett, Esq.	5	0 10	33	25·4	28·44	178	125
D	Gloucester (Maisemore Lock)	H. J. Minett, Esq.	5	0 8	34	25·1	26·05	173	123
D	Dowdeswell Reservoir	Chelt. & Glos. Water Bd.	5	1 3	357	30·0	32·54	159	124
D	Cheltenham (Hewletts Res.)	Chelt. & Glos. Water Bd.	8	1 6	419	27·7	31·65	169	125
D	Cheltenham (Sandford Mead)	Chelt. & Glos. Water Bd.	5	2 4	210	26·3	27·97	137	112
D	CHELTENHAM (Montpellier Gdns.) (+A)	Town Clerk	5	1 0	214	26·5	29·01	157	114
D	Tewkesbury Pumping Stn.	Chelt. & Glos. Water Bd.	5	1 0	47	23·9	23·46	163	117
	4.—SEVERN. Upper Avon. 68 sq. mi.								
D	Blockley	Miss E. M. Richardson	5	1 0	550	29·4	33·16	172	126
D	Winchcombe (Sudeley Castle)	Major J. H. D. Brocklehurst	5	1 0	357	29·8	36·82	182	130
D	Chipping Campden (Leysbourne)	Miss C. Sparling	5	1 0	470	...	31·96	189	129
D	Campden (Research Station)	Director	5	1 0	389	...	31·71	184	123
	5.—LOWER AVON & C. 208 sq. mi.								
D	Bitton (Willsbridge Nurseries)	G. E. A. Richards, Esq.	5	1 0	100	...	35·00	181	138
D	Bath (Monkswood Reservoir)	Bath Corporation W.W.	5	1 0	365	...	37·73	193	145
D	Bristol (Hopewell Hill)	W. Gloucester Water Co.	8	1 8	386	30·5	34·90	181	140
D	Clifton (Oakfield Road)	A. M. Paterson, Esq., C.E.	5	1 0	200	33·0	37·04	175	141
	Bristol (St. Andrew's Park)	H. Vicars Webb, Esq.	5	1 2	200	32·6	36·11	176	131
D	Bristol (Stoke Paddock Road)	Major E. J. Dunscombe	5	1 6	90	...	32·98	181	131
D	Horfield (+A)	City Engineer, Bristol	5	1 0	248	...	34·20	167	133
D	Henbury (The Ridgeway)	R. H. Gunn, Esq.	5	1 0	263	...	34·31	186	137
D	FRAMPTON COTTERELL (Park Ho.)	H. H. Harding, Esq.	5	1 0	158	29·8	33·36	199	136
D	Badminton Gardens	Head Gardener	5	1 0	407	...	41·03	197	151
D	Shipton Moyne Pumping Stn.	W. Gloucester Water Co.	5	1 0	312	...	35·39	190	140
D	Long Newnton	Mr. P. A. Day	5	1 0	350	...	29·52	174	130
	6.—THAMES. Right Bank Tributaries. 17 sq. mi.								

DIVISION VI—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	GLOUCESTERSHIRE—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	7.—THAMES. Windrush & c. 340 sq. mi.								
D	Fairford (Reevey, Kempsford)	Major H. A. Northen	5	1	0 260	25·6	28·19	140	121
D	Lechlade (St. John's Lock)	Thames Conservancy	5	1	7 237	24·3	29·56	168	115
D	Lechlade (Claydon House)	Mrs. L. Metcalfe	5	1	0 250	25·9	29·23	162	124
D	Fairford (Draycott)	Miss F. A. Edmonds	5	2	0 200	...	33·17	180	133
D	Cirencester (Waterton House)	Alex McIntyre, Esq.	5	1	0 330	...	34·40	175	121
D	Cirencester (Somerford Road)	Nigel Woods, Esq.	5	1	0 354	30·8	34·27	195	131
D	Cirencester (Baunton W.W.)	Cirencester U.D.C.	5	1	0 396	...	34·39	189	123
D	Daglingworth Manor	D. W. Harvey, Esq.	8	0	10 450	32·2	36·84	222	134
D	Bibury	C. E. Dowdeswell	5	2	6 ...	...	32·75	155	118
d	Great Barrington	Mrs. R. E. Lazenby	5	1	6 417	28·8	31·02	155	119
D	LITTLE RISSINGTON (+A)	Meteorological Office	5	1	0 731	29·4	35·63	176	123
D	Stow-on-the-Wold (Icomb Place)	Mrs. H. Prestney	8	1	6 500	29·3	31·79	181	119
	HEREFORDSHIRE. (Area 840 sq. mi.)								
	1.—WYE. 685 sq. mi.								
D	Broad Oak (Glanmonnow House)	Brig.-Gen. T. R. F. Bate	5	0	10 500	...	37·91	223	135
D	Llangarron (Llangrove)	J. F. Maclean, Esq.	5	1	0 300	...	37·62	174	133
D	Llangarron (Tre Evan)	Col. C. R. B. Owen	5	1	3 256	...	36·54	156	129
	Walford (Hill Court Gardens)	Mrs. G. R. Trafford	5	1	1 126	28·4	34·37	158	125
D	ROSS-ON-WYE (+A)	F. J. Parsons, Mus.Bac.(M.O.)	5	1	0 223	28·2	30·82	163	119
D	Bridstow (Ashe Leigh)	Major W. Stanley R. Cox	5	1	6 220	27·4	31·88	169	121
D	Ross (The Chantry)	M. F. Maclean, Esq.	5	1	0 475	...	32·78	169	130
D	Perrystone Court	Lt.-Gen. Sir Sidney Clive	5	1	3 450	25·5	32·13	177	131
D	Much Dewchurch School	J. Holley, Esq.*	5	1	0 220	...	33·75	163	131
D	Vowchurch (Ladywell House)	A. S. Wood, Esq.	5	1	0 400	34·9	38·11	183	140
D	Michaelchurch Escley (Llan Rosser)	J. M. Maddy, Esq.*	5	1	0 1125	...	48·64	195	141
D	Hampton Bishop	C. J. Langley, Esq.*	5	1	0 145	...	31·42	171	123
D	Hereford (Breinton Court)	Mrs. R. E. H. Baily	5	1	0 238	25·9	30·90	179	122
D	Hereford (Barton Road)	Messrs. Chave & Jackson, Ld.	5	1	3 187	...	29·78	194	121
D	Hereford (Lichfield Avenue)	E. H. Morris, Esq.	5	1	6 200	...	29·48	176	122
D	Hereford (Aylestone Hill)	Rev. Prebendary G.W. Stewart	5	1	0 210	...	28·15	161	120
D	Hereford (Lugwardine)	Major O. G. S. Croft	5	0	9 300	...	32·24	163	125
D	Clifford School	Headmaster	5	1	7 490	...	40·52	219	133
D	Burghill Hospital	Medical Superintendent	5	1	0 300	26·3	30·30	152	118
d	Ocle Pychard (Ocle Court)	Mrs. Cresswell	8	0	10 240	27·8	28·55	...	...
D	Weobley (Garnstone)	Lt.-Col. R. H. H. Verdin	5	1	2 442	...	30·83	180	127
D	Sarnesfield Grange	Rev. W. Marshall	5	1	5 400	...	30·73	163	122
D	Hope under Dinmore	Messrs. Cadbury Bros. Ltd.*	5	1	0 246	27·5	29·11	164	117
D	Pembridge (Moor Court)	Mrs. C. A. Benn	5	1	8 400	...	33·36	173	125
D	Pembridge (Burton Court)	Mrs. P. Clowes	5	1	6 400	28·4	36·39	220	146
D	LYONSHALL (The Whittern)	R. H. Green, Esq.	5	1	0 508	...	37·54	188	140
D	Kington (Hill Court)	J. E. Barendt, Esq.	5	0	9 595	...	40·68	160	143
D	Kington (Dunfield)	Colonel R. J. Few	8	1	0 680	...	40·02	176	143
D	Monkland Cottage	Capt. N. J. Bengough	5	1	3 300	...	29·94	177	128
D	Kimbolton (Grantsfield)	Miss D. W. Hutchinson	5	1	0 424	28·4	31·51	164	132
D	Shobdon (Ty'n-y-Coed)	Miss Woodhouse	5	1	0 450	...	36·04	198	156
D	Presteigne (Middlemoor)	A. M. Wilson, Esq.	8	1	0 480	34·0	38·57	206	139
	2.—SEVERN. Right Bank Tributaries. 155 sq. mi.								
D	Newent (Kilcot)	Forestry Commission	8	2	0 200	...	30·31	153	123
d	Much Marcle (Hall Court)	Mrs. J. J. S. Powell	5	1	0 200	...	30·45	...	113
	Ledbury (The Twerne)	L. J. C. Riley, Esq.	5	1	0 400	...	32·68	...	137
D	Colwall (The Downs School)	F. M. Day, Esq.	5	1	0 500	...	31·31	162	120
D	Cradley School	R. J. Hughes, Esq.	5	0	9 250	...	31·19	147	117

* *Per* River Wye Catchment Board.

DIVISION VI—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	SHROPSHIRE. (Area, 1,343 sq. mi.)		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	1.—MERSEY. Weaver. 27 sq. mi.								
D	Adderley (Raven House)	Mrs. Edmond Browne ...	5	1	270	...	26·25	181	135
	2.—DEE. 30 sq. mi.								
D	Whitchurch (Fenns Bank)	F. W. Sanders, Esq. ...	8	1	271	27·1	28·52	200	143
d	Overton (Sodylt Hall)	W. S. Corbett Lowe, Esq.	5	3	273	29·7	32·58	...	...
	3.—SEVERN. Right Bank Tributaries. 722 sq. mi.								
D	Bucknell Vicarage	Rev. W. A. Woodhouse ...	5	1	480	...	35·50	158	138
d	Ludlow (Hill Crest)	C. B. Marston, Esq. ...	5	1	350	...	30·53	...	...
D	Bromfield (Oakly Park)	Head Gardener	5	1	300	29·7	33·40	176	136
	Cleobury Mortimer (Chilton) ...	F. M. Tomkinson	5	0	410	...	35·86	...	...
D	Burwarton (Dingle Leys)	R. B. C. Edwards, Esq. ...	5	0	730	...	37·37	198	145
d	Craven Arms (Grist House)	Canon H. J. Smith	5	1	850	...	32·11	...	...
D	Craven Arms (Westhope Cottage) ...	Lady Dyer	5	0	610	...	30·50	190	136
D	Lydbury North (Totterton)	Major W. H. B. Whitaker	5	0	700	30·8	34·06	172	144
D	Bishop's Castle (High School) ...	Headmaster	5	1	575	32·8	37·04	193	147
D	Bishops Castle (The Mount)	F. Lavender, Esq.	5	1	735	...	32·75	216	151
D	Church Stretton (Sewage Works) ...	The Surveyor U.D.C. ...	5	1	582	33·7	31·04	196	145
D	Bridgnorth (Morville Hall)	Dr. W. J. S. Bythell ...	5	1	320	...	31·18	184	134
D	Chirbury (Marrington Hall)	Col. C. S. Price-Davies ...	5	1	490	29·5	30·21	179	144
D	Church Stretton (Woolstaston) ...	A. M. Parry, Esq.	5	1	745	31·9	35·17	197	154
d	Broseley (Boys School)	The Headmaster	5	1	485	...	32·59	...	...
D	Cressage (Harnage Grange)	E. W. Towler, Esq. ...	5	1	364	...	27·78	200	142
D	Worthen	Dr. D. M. Hunter	5	1	395	...	31·32	206	155
D	Wellington (Barnfield Crescent) ...	M. F. Richards, Esq. ...	5	1	445	...	29·80	179	138
D	Meole Brace Hall	J. B. Hoare, Esq.	5	1	250	...	26·24	178	135
D	Shrewsbury (Longden Road) ...	Capt. J. Deedes	5	1	250	...	27·46	186	142
D	Shrewsbury (St. John's Hill)	Atcham R.D.C.	5	1	253	...	25·37	174	127
D	SHREWSBURY (Monkmoor)	Medical Officer of Health ...	8	1	184	...	26·64	185	134
	4.—SEVERN. Left Bank Tributaries. 564 sq. mi.								
D	Bridgnorth (Stanmore Hall)	The Hon. E. S. Hamilton-Russell	5	1	297	...	30·61	183	131
D	Bridgnorth (Silverdale)...	H. E. Trevor, Esq.	5	1	245	...	30·34	181	127
D	Hilton (Pumping Station)	B. L. McMillan, Esq., C.E.	5	1	168	...	28·73	167	126
D	Ackleton (The Folley)	H. J. Bath, Esq.	5	1	230	...	30·98	168	133
D	Pattingham (Kingslow Hall)	R. Tildesley, Esq.	5	1	300	...	30·59	162	126
D	Shifnal (Hatton Grange)	Head Gardener	5	1	262	26·1	30·00	160	130
D	Shifnal (Cosford W.W.)	B. L. McMillan, Esq. C.E....	5	0	222	...	29·74	162	133
D	Wellington W.W. (Wrekin Res.) ...	The Surveyor	5	1	478	25·7	34·29	154	126
D	Wellington (Wrekin College) ...	A. S. Wilson-Jones, Esq., M.A.	5	0	300	...	28·13	164	132
	Wellington (Allscott)	British Sugar Corpn., Ltd.	5	0	200	...	25·84	156	114
D	NEWPORT (Harper Adams Ag. Coll.)	Principal	5	1	211	24·8	24·87	186	131
D	SHAWBURY (Airfield)	Meteorological Office ...	5	1	235	...	26·77	181	133
D	Newport (Chetwynd Park)	J. G. B. Borough, Esq. ...	5	0	230	28·3	30·97	195	139
D	Wem (Senior School)	Headmaster	5	0	260	...	31·02	173	141
d	Cheswardine Hall	J. Donaldson-Hudson, Esq.	5	1	530	29·1	31·97	...	135
D	OSWESTRY (Filter Beds)	Lt.-Col. F. Hibbert, C.E. ...	5	1	568	...	36·60	187	149
D	Oswestry (Llanforda Reservoir) ...	Lt.-Col. F. Hibbert, C.E. ...	8	1	702	...	38·65	198	152
D	Oswestry (Mount Reservoir)	J. E. Taylor, Esq., C.E. ...	5	1	698	34·5	37·66	187	143
D	Oswestry (Cross Street)	J. R. Mackavoy, Esq. ...	5	1	398	...	35·68	188	144
D	Oswestry (Llwyn Terrace) ... (+A)	J. E. Taylor, Esq., C.E. ...	5	1	430	...	35·08	186	141
D	Ellesmere (Sheraton House)	C. Adam, Esq.	5	0	300	...	29·34	180	134

DIVISION VI—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	STAFFORDSHIRE. (Area, 1,166 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—MERSEY. Weaver. 50 sq. mi.								
D	Madeley Vicarage	Rev. W. Garner*	5	1 0	350	...	32·67	204	147
D	Biddulph Grange	Secretary	5	1 0	560	33·8	39·54	186	157
	2.—SEVERN. Left Bank Tributaries. 160 sq. mi.								
D	Kinver	R. A. Robertson, Esq., C.E.	5	1 0	152	...	30·60	168	121
d	Lye (Pumping Station)	G. P. Deeley, Esq.	5	1 0	245	...	30·39	...	125
D	Kinver (Prestwood)	R. A. Robertson, Esq., C.E.	5	1 0	179	...	31·05	168	131
D	Kingswinford (Ashwood P.S.)	R. A. Robertson, Esq., C.E.	5	1 0	207	24·9	29·90	188	127
D	Wolverhampton (Dimmingsdale W.W.)	B. L. McMillan, Esq., C.E.	5	0 9	323	...	30·50	162	125
D	Wolverhampton (West Park)	Dr. R. H. H. Jolly	5	1 0	430	27·1	32·66	186	137
D	Tettenhall Waterworks	B. L. McMillan, Esq., C.E.	5	0 10	468	...	32·64	173	135
D	Shifnal (Weston Park)	Earl of Bradford	5	1 6	400	27·3	28·13	195	135
D	Norbury Junction	British Railways	5	1 0	331	28·0	35·04	205	134
D	MARKET DRAYTON (Ches. J. San.)	Medical Superintendent	5	1 0	581	...	32·91	194	150
D	Maer Hall Gardens	Miss Harrison, M.B.E.	5	1 0	390	32·5	38·46	167	142
	3.—TRENT. Right Bank Tributaries. 513 sq. mi.								
D	WEST BROMWICH (Nicholls Street)	H. E. Howle, Esq.	8	1 0	537	...	33·88	192	135
D	Tividale (Sewage Disposal Works)	G. P. Deeley, Esq.	5	1 0	432	...	33·18	177	141
D	West Bromwich (Dartmouth Park)(+A)	Borough Surveyor	8	1 7	543	26·2	32·93	168	131
D	Tipton (Toll End Sewage Works)	The Manager	5	1 0	400	...	31·79	179	132
D	Wednesbury (Ocker Hill)	Docks & Inland Waterways	5	1 0	476	26·6	33·00	168	140
D	Walsall (Bescot Sewage Farm)	M. E. Habershon, Esq.	5	0 11	376	26·9	32·04	182	135
D	Darlaston (Sewage Works)	S. E. Hammonds, Esq.	8	1 6	393	...	29·04	164	121
D	Willenhall Sewage Works	Engineer & Surveyor	5	0 10	390	...	28·45	192	119
D	Bilston (The Lunt Outfall)	Works Manager	8	1 0	410	27·3	31·18	175	131
D	WALSALL (Dartmouth Avenue)	J. C. W. Day, Esq.	5	1 0	455	...	29·78	178	125
D	Aldridge (Bourne Vale)	R. A. Robertson, Esq., C.E.	5	1 0	419	25·1	30·05	167	127
D	OAKEN (Manor House)	A. J. Parkes, Esq., M.C.	5	1 1	409	...	32·63	163	133
D	Shenstone (Little Hay)	R. A. Robertson, Esq., C.E.	5	1 0	298	...	31·16	177	133
D	Bloxwich (Sneyd Reservoir)	Docks & Inland Waterways	5	1 0	507	25·5	32·38	173	135
D	Pelsall (Goscote Sewage Works)	M. E. Habershon, Esq.	5	1 0	435	...	30·54	172	135
D	Tamworth (Sewage Pumping Stn.)	K. Price, Esq.	8	0 10	182	...	29·25	180	124
D	Brownhills (Sandhills)	R. A. Robertson, Esq., C.E.	5	1 0	407	...	32·80	174	127
D	Brownhills	A. Wikeley, Esq., M.I.Mun.E.	5	1 8	492	26·8	31·63	143	103
D	Chasetown	Cannock Chase Colliery Co.	5	0 11	508	...	31·02	131	117
D	Brewood (Slade Heath P.S.)	R. A. Robertson, Esq., C.E.	5	1 0	340	24·9	33·94	159	132
D	Hammerwich (Cannock Chase Res.)	Docks & Inland Waterways	5	1 0	475	25·3	32·46	201	131
D	Whittington (Old Hall)	Mr. E. J. L. Lockyer	5	1 3	221	...	29·01	164	127
D	Lichfield (St. Michaels Rectory)	The Rev. W. F. Need	5	1 6	280	...	30·45	180	133
D	†Cannock (Longford Rd. Sew. W.)(+A)	Cannock U.D.C.	5	1 0	400	...	29·98	176	137
D	Cannock (Heath Hayes Sew. Wks.)	Cannock U.D.C.	5	1 0	530	...	34·07	192	139
D	Brewood (Belvide Reservoir)	British Railways	5	1 0	367	...	34·04	190	139
D	Elford	W. H. Haile, Esq., C.E.	5	1 0	183	...	25·56	160	118
d	†Hednesford (Scout House)	R. A. Robertson, Esq., C.E.	5	1 0	702	...	36·45	187	142
D	Rugeley (Longdon Lodge)	F. J. Dixon, Esq., C.B.E.‡	5	1 0	413	26·1	32·78	169	137
D	Hednesford (Pye Green)	R. A. Robertson, Esq., C.E.	5	1 0	768	...	34·05	174	141
D	Lichfield (Hanch Reservoir)	R. A. Robertson, Esq., C.E.	5	1 0	259	26·9	32·22	186	132
D	Alrewas (C. of E. School)	The Headmaster	5	0 6	200	...	30·13	162	126
D	Rugeley (Slitting Mill)	R. A. Robertson, Esq., C.E.	5	1 0	299	...	32·33	170	140
D	Rugeley (Brindley Bank)	R. A. Robertson, Esq., C.E.	5	1 0	254	26·6	32·58	175	138
D	Milford Waterworks	G. J. Plant, Esq.	5	1 0	246	27·5	32·91	188	135
D	Stafford (Newport Road)	J. C. Burne, Esq.	5	1 0	250	...	32·46	184	142
D	Stafford (Victoria Pleasure Ground)	T. H. Higson, Esq., C.E.	5	1 6	245	27·2	30·52	171	135
D	Yarlet Hall	K. E. Tarling, Esq.	5	1 0	405	...	33·70	194	141

* *Per* Cheshire Rivers Catchment Board. † Turf wall round gauge. ‡ *Per* S. Staffs. W.W. Co.

DIVISION VI—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	STAFFORDSHIRE—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—TRENT. Right Bank Tributaries.—(*contd.*).								
D	Eccleshall (Sugnall Hall)	C. E. Lowe, Esq.	5	1 0	450	...	33·76	184	140
d	Standon (Nelson Hall T.C.)	The Principal	5	0 7	350	...	34·73	...	...
D	Standon (Hatton W.W.)	C. V. Brown, Esq., C.E.	5	1 0	355	29·0	34·67	171	151
D	Whitmore Pumping Station	British Railways	5	1 3	396	...	34·70	174	140
	4.—TRENT. Left Bank Tributaries. 193 sq. mi.								
D	Hamstall Ridware (No. 1)	R. A. Robertson, Esq., C.E.	5	1 0	214	...	29·64	167	132
D	Hamstall Ridware (No. 2)	R. A. Robertson, Esq., C.E.	5	1 0	240	...	29·98	168	133
D	Burton Reservoir	R. A. Robertson, Esq., C.E.	5	1 0	309	25·1	26·16	159	117
D	Burton (Shobnall)	Messrs. Bass & Co., Ltd.	5	1 0	157	24·6	27·10	187	124
D	Burton-on-Trent (Outwoods)	R. A. Robertson, Esq., C.E.	5	1 0	310	...	29·57	177	131
D	Burton (Borough Hospital)	Medical Officer of Health	5	1 0	220	...	29·35	177	122
D	Blithfield Intake	R. A. Robertson, Esq., C.E.	5	1 0	273	...	32·74	184	141
D	Abbots Bromley (Port Fields)	R. A. Robertson, Esq., C.E.	5	1 0	316	...	33·75	174	145
M	Newton (Booth)	R. A. Robertson, Esq., C.E.	5	1 0	360	...	31·77	...	...
D	Kingston	R. A. Robertson, Esq., C.E.	5	1 0	420	...	33·31	173	145
M	Gratwich (Caverswall Farm)	R. A. Robertson, Esq., C.E.	5	1 0	381	...	33·80	...	...
M	Gratwich (Fradswell)	R. A. Robertson, Esq., C.E.	5	1 0	450	...	33·16	...	...
M	Leigh (Middleton Green)	R. A. Robertson, Esq., C.E.	5	1 0	597	...	36·52	...	...
M	Leigh (Lane Farm)	R. A. Robertson, Esq., C.E.	5	1 0	500	...	35·64	...	...
M	Fulford Manor	R. A. Robertson, Esq., C.E.	5	1 0	710	...	36·37	...	...
D	Draycott (Cresswell P.S.)	C. V. Brown, Esq., C.E.	5	1 0	538	...	38·81	204	152
D	Longton (The Meir)	C. V. Brown, Esq., C.E.	5	1 0	617	31·7	37·12	190	142
M	Caverswall (Hardwick Farm)	R. A. Robertson, Esq., C.E.	5	1 0	810	...	37·57	...	...
M	Longton (Hulme)	R. A. Robertson, Esq., C.E.	5	1 0	710	...	38·19	...	...
D	Hanley Sewage Works	W. H. Makepeace, Esq.	5	1 0	386	...	36·12	188	138
D	Werrington	R. A. Robertson, Esq., C.E.	5	1 0	860	...	37·98	190	152
D	Werrington (Wallmires P.S.)	Cheadle R.D.C.	5	1 0	761	...	40·64	213	159
	5.—TRENT. Dove. 250 sq.mi.								
D	Uttoxeter	Messrs.C.H.Elkes&Sons,Ltd.	5	1 0	295	...	33·10	179	131
M	Dilhorne (Richmoor Hill)	R. A. Robertson, Esq., C.E.	5	1 0	919	...	39·30	...	...
D	Leek (Longsdon)	S. K. Peacock, Esq.	5	1 0	650	...	33·05	173	149
D	Onecote (New Mixon Hay)	Staffs. War Ag. Ex. Com.	5	1 0	1300	...	45·92	220	153
D	Leeks (Tittesworth)	C. V. Brown, Esq., C.E.	5	1 0	657	...	42·54	210	167
M	Leek (Withens, Upper Hulme)	J. A. Gilchrist, Esq.	5	1 1	1084	39·0	39·17	...	...
	WORCESTERSHIRE. (Area, 732 sq. mi.)								
	1.—SEVERN. Right Bank Tributaries. 222 sq. mi.								
D	Upton-on-Severn (Berryfield Ho.)	Dr. W. V. Naish	5	1 0	50	...	26·80	164	119
D	Malvern (British Camp Res.)	Malvern U.D.C.	5	1 0	677	28·5	28·95	156	116
D	Malvern Wells (White Lodge)	W. W. Boucher, Esq.	5	1 0	500	...	30·83	180	122
	Malvern (Gloucester House)	Rev. F. H. Fowler, M.A.	5	1 4	400	...	31·13	184	126
d	MALVERN (Free Library)	Malvern U.D.C.	5	1 0	380	27·6	31·08	149	117
D	Worcester (Diglis Lock)	H. J. Minett, Esq.	5	1 0	49	24·7	27·77	148	124
d	Shelsley Beauchamp	W. Lionel Moore, Esq.	5	0 9	132	...	31·45	140	113
D	Ombersley (Holt Lock)	H. J. Minett, Esq.	5	1 1	55	25·3	27·21	156	121
	Stourport (Astley Towne House)	F. J. Neale, Esq.	8	1 3	190	...	29·17	195	128
D	Tenbury (Belle View)	Miss M. M. Lowe	5	1 0	315	26·3	27·87	161	120
	2.—SEVERN. Left Bank Tributaries. 200 sq. mi.								
D	Worcester (Waterworks)	City Engineer	5	1 0	52	23·2	27·74	165	119
D	Worcester (Samuel Southall School)	Headmaster	5	1 0	147	...	25·30	150	107
D	WORCESTER (PERDISWELL)	Horticultural Superintendent	5	1 0	94	...	27·66	155	117
D	Worcester (Bevere Lock)	H. J. Minett, Esq.	5	1 1	52	24·5	24·94	144	112

DIVISION VI—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	WORCESTERSHIRE—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	2.—SEVERN. Left Bank Tributaries—(*contd.*).								
D	Droitwich (Sewage Works)	Bor. Engineer & Surveyor	5	1 0	106	25·4	28·13	157	119
D	Bromsgrove (Tardebigge Res.)	E. Perry, Esq.	5	1 0	455	27·5	34·43	188	132
D	Bromsgrove (Sewage Disp. Wks.)	Bromsgrove U.D.C.	5	1 0	280	...	32·14	151	134
D	Bromsgrove (Burcot P.S.)	F. H. Bullock, Esq.	5	1 0	432	...	33·57	174	137
D	Barnt Green (Linthurst Road)	Miss M. Gibbins	5	1 0	650	...	36·24	193	136
D	Stourport (Lincombe Lock)	H. J. Minett, Esq.	5	1 0	62	25·6	29·70	158	122
D	Bromsgrove (Washing Stocks P.S.)	F. H. Bullock, Esq.	5	1 0	366	...	33·09	171	137
D	Bewdley (C.E. School)	J. Bates, Esq.	8	1 0	80	26·4	28·91	176	124
d	Kidderminster (Pumping Station)	Sanitary Inspector	5	1 0	178	...	27·62	...	101
D	Kidderminster (St. John's Avenue)	H. Hodgkinson, Esq.	5	1 0	250	...	30·01	159	125
d	Kidderminster (Park Hall)	K. H. Wilson, Esq.	5	1 0	200	25·7	30·94	151	121
D	Kidderminster (Wolverley Road)	R. D. M. Evers, Esq.	5	1 3	245	...	30·12	197	128
D	Bewdley (Elan Aqueduct)	C. A. Risbridger, Esq., C.E.	5	1 0	91	26·7	33·19	167	141
D	Clent Hall	Miss H. M. Wilson	5	1 0	600	...	34·05	192	135
d	Wolverley (Hill House)	J. Christopher Wilson, Esq.	5	0 8	250	...	34·29	168	134
D	Halesowen (Romsley)	R. A. Robertson, Esq., C.E.	5	1 0	616	30·6	38·04	183	146
D	Halesowen (Hayley Green)	C. Roberts, Esq.	5	1 0	500	...	35·71	173	133
D	Pedmore (Beckman Road)	A. Porter, Esq.	5	1 0	415	26·5	31·15	174	137
D	Stourbridge (Pumping Station)	G. P. Deeley, Esq.	8	1 0	212	27·1	35·57	169	131
D	Wollaston (Wood Street)	H. Little, Esq.	5	1 0	275	...	30·58	164	128
D	Netherton (Lodge Farm Res.)	Docks & Inland Waterways	5	1 0	445	...	32·39	176	141
d	Dudley (Bluecoat Senior School)	S. Wright, Esq.	5	1 3	660	...	31·67	...	...
	3.—SEVERN. Upper Avon. 251 sq. mi.								
D	Bredon (Bredon House)	Col. M. F. Grant	5	1 1	120	24·5	25·48	166	120
D	Broadway (Farncombe)	G. Pemberton, Esq.	5	0 5	750	...	35·69	149	143
D	Defford (Airfield)	(+A) Meteorological Office	5	1 0	56	...	24·05	167	115
D	Evesham (Bengeworth)	Messrs. Ross Bros., Ltd.	5	1 0	128	22·9	25·94	165	121
D	Evesham (Bretforton Manor)	H. Ashwin, Esq.	5	0 11	130	...	28·00	183	129
d	Evesham (Sewage Works)	H. Parks, Esq.	5	1 9	85	22·6	25·80	...	116
D	Evesham (High St.)	N. A. Field, Esq.	5	1 2	170	...	26·99	174	121
d	Evesham (Port Street)	Messrs. Craven & Co.	5	1 0	72	...	26·70	...	...
D	Pershore (Three Springs)	C. A. Mumford, Esq.	5	4 6	72	...	26·58	169	118
D	Crowle (Manor House)	Miss C. Moore	5	1 0	116	...	26·19	151	113
	Alcester (Cookhill)	T. Barber, Esq.	5	1 0	400	24·5	29·41	173	...
D	Redditch (Hewell Gardens)	Mr. F. Molyneux	5	1 0	469	27·7	34·51	181	132
D	Bromsgrove (Brockhill P.S.)	F. H. Bullock, Esq.	5	1 0	439	...	33·06	184	134
D	Bromsgrove (Lower Bittall Res.)	E. Perry, Esq.	5	1 0	457	...	35·01	179	140
	4.—THAMES. Windrush & c. 3 sq. mi.								
	5.—TRENT. Right Bank Tributaries. 56 sq. mi.								
D	Oldbury (Barnford Hill Park)	Borough Surveyor	5	0 9	607	...	37·44	165	147
D	Dudley (Tipton Road)	F. H. Gibbons, Esq., C.E.	8	1 0	584	...	31·71	192	138
D	Dudley (Shavers End) No. 1	R. A. Robertson, Esq., C.E.	5	1 0	745	...	33·81	175	139
	WARWICKSHIRE. (Area, 944 sq. mi.)								
	1.—SEVERN. Upper Avon. 640 sq. mi.								
M	Long Compton (Old Quarry)	D. E. Landale, Esq.	5	1 0	450	...	29·35	...	...
d	Long Compton (Weston Park)	Mrs. H. B. Warriner	8	1 0	510	26·5	31·59	...	125
D	Shipston-on-Stour (Compton Scorp.)	A. W. Beecham, Esq.	5	1 0	364	...	27·30	170	121
d	Tredington	Mrs. N. H. Walton	5	1 0	250	...	26·18	...	114
D	Kineton (Butlers Marston)	G. B. Blyth, Esq.	5	1 0	300	...	29·82	178	124
D	Stratford-on-Avon (Drayton Manor)	Sir G. Stapledon, C.B.E.	5	1 0	160	...	25·47	167	121

DIVISION VI—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	8 Rainfall	8 Days with ·01 in. or more	8 Days with ·04 in. or more
	WARWICKSHIRE—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	1.—SEVERN. Upper Avon—(*contd.*).								
D	Stratford-on-Avon (Milcote)	P. C. Smart, Esq., C.E. ...	5	1	6 122	23·6	26·32	167	119
D	Stratford-on-Avon (Thurlaston)	Miss M. A. Everard ...	5	1	0 135	24·2	26·53	196	123
D	Bidford (Moor Hall)	E. H. Cubberley, Esq. ...	5	1	0 125	24·0	27·62	176	125
D	Temple Grafton Court	T. L. Lonsdale, Esq. ...	8	1	3 270	24·8	27·83	160	131
D	Alcester (Ragley Hall)	Mr. A. W. Richards ...	5	1	0 270	25·8	32·46	143	127
D	Alcester (Surveyor's Office)	Alcester R.D.C.	8	1	6 140	...	29·18	150	124
D	Alcester (Arrowside)	J. B. Shewell, Esq.	5	1	4 148	...	28·09	161	122
D	Ashorne (Victoria Cottage)	G. T. Osborn, Esq. ...	5	1	0 160	24·7	27·75	168	122
D	Stratford-on-Avon (Snitterfield) ...	P. C. Smart, Esq., C.E. ...	5	1	6 274	25·2	28·26	153	120
D	Alcester (The Pleck)	Miss C. E. Chapman ...	5	0	10 250	...	31·01	168	131
D	Southam (Banbury Road)	C. W. Arkell, Esq.	5	0	10 250	...	31·47	161	123
D	Studley College	Headmistress	5	0	9 256	...	31·35	170	132
D	Warwick (Mill Street)	Mr. H. F. Smale	5	1	0 164	25·3	27·86	171	122
D	Warwick (St. Nicholas Park)	R. Wormell, Esq., C.E. ...	5	1	0 155	...	27·60	164	112
D	LEAMINGTON SPA (Pump Rm. Gdns.)	Medical Officer of Health ...	8	1	0 163	24·0	27·84	168	119
d	Warwick (Hatton)	Docks & Inland Waterways	5	1	0 400	...	32·62	...	115
D	Leamington Spa (Woodland Grange)	H. M. Blenkinsop, Esq. ...	8	1	0 200	...	27·81	157	126
D	Leek Wootton (The Lodge)	W. F. Mitchell, Esq. ...	5	1	0 249	...	30·36	175	133
D	Dunchurch Hall	C. L. D. Fawcus, Esq. ...	5	1	1 400	...	28·77	155	122
D	Dunchurch Lodge Gardens	Major H. S. Cayzer ...	5	1	0 380	24·4	29·65	160	132
D	Kenilworth (U.D.C. Offices)	Surveyor	5	1	6 286	...	31·45	166	132
D	Kenilworth (HONILEY) ... ... (+A)	Meteorological Office ...	5	0	11 427	...	30·63	166	136
D	Stretton-on-Dunsmore (Manor Ho.)	L. Lister-Kaye, Esq. ...	5	1	0 280	...	30·52	187	122
D	Rugby (Bilton Grange)	Mr. L. W. Bass	5	2	6 400	...	28·44	163	119
D	Rugby (Avon W.W.)	Borough Engineer	5	0	9 285	...	26·66	164	119
d	Ryton-on-Dunsmore (Ryton House) ...	Mrs. M. L. Browett ...	5	1	2 260	26·0	29·79	...	107
D	Coventry (Whitley Pumping Stn.) ...	City Engineer, Coventry ...	8	1	0 238	...	29·09	167	129
D	Coventry (Stoke)	W. R. Griffiths, Esq. ...	5	1	0 267	...	27·98	159	128
D	COVENTRY (City Hospital)	Medical Officer of Health ...	8	1	0 241	26·0	29·29	170	126
D	Coventry (Coundon Green)	N. Greville, Esq.	8	1	0 420	...	30·86	162	134
D	Nuneaton (Bedworth Waterworks) ...	Waterworks Manager ...	5	1	1 337	...	31·12	162	132
d	Astley Vicarage	Rev. I. F. H. Carr-Gregg ...	5	1	0 440	...	30·49	146	121
	2.—THAMES. Windrush & c. 2 sq. mi.								
	3.—THAMES. Cherwell. 15 sq. mi.								
	4.—TRENT. Right Bank Tributaries. 287 sq. mi.								
d	Earlswood (Fulford Hall)	J. H. Aston, Esq.	8	1	2 500	...	35·18	...	138
D	Coventry (Balsall Common)	W. F. E. Seeley, Esq. ...	5	1	8 380	...	31·46	170	139
D	Highters Heath Res.	C. A. Risbridger, Esq., C.E.	5	1	0 517	...	34·28	173	141
D	Halesowen (Frankley)	C. A. Risbridger, Esq., C.E.	5	0	10 571	30·7	34·58	190	138
D	Northfield (Bartley Res. No. 1) ...	C. A. Risbridger, Esq., C.E.	5	1	0 600	...	36·86	183	139
D	Moseley (Cotton Lane)	U. A. Baker, Esq.	5	1	0 500	...	34·63	191	134
D	Bartley (Bromwich Wood)	C. A. Risbridger, Esq., C.E.	5	1	0 611	...	36·65	182	138
D	Selly Oak (Frederick Road)	Mrs. E. H. Leonard ...	5	1	0 540	29·2	36·18	184	140
D	BIRMINGHAM (SPARKHILL)	D. H. Owen, Esq.	5	1	0 425	28·1	32·80	178	129
D	BIRMINGHAM (Edgbaston)	Midland Inst. (A. J. Kelley)	8	1	0 535	26·5	33·91	174	133
D	Birmingham (Rotton Park)	Docks & Inland Waterways	5	1	0 477	...	30·35	177	127
D	Birmingham (Stechford)	Birmingham Drainage Bd.	5	1	3 302	...	30·30	178	134
D	Birmingham (Victoria Road)	D. M. Evans, Esq.	5	1	0 469	...	32·75	193	133
D	Birmingham (Saltley Sewage Works) ...	Birmingham Drainage Bd.	5	1	0 292	...	29·44	168	133
D	Nuneaton (The Quarry)	Miss K. E. Smith	5	1	0 321	...	32·26	182	128
D	Birmingham (Handsworth Park) (+A)	City Engineer	8	1	4 424	...	33·59	182	135
D	Whitacre (Birmingham W.W.) ...	C. A. Risbridger, Esq., C.E.	5	1	0 269	26·0	27·56	171	126
D	Birmingham (Erdington)	C. A. Risbridger, Esq., C.E.	5	1	0 442	...	30·33	169	127

DIVISION VI—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	WARWICKSHIRE—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—TRENT. Right Bank Tributaries—(*contd.*).								
D	B'gham (Erdington, Spring La.) (+A)	City Engineer	8	1 0	386	...	30·74	191	130
D	Minworth Greaves	Birmingham Drainage Bd.	8	1 0	386	24·3	27·17	160	119
D	Birmingham (Walsall Road)	P. J. Harris, Esq., B.Sc. ...	5	1 0	450	...	33·03	175	128
d	Nuneaton Pumping Station	R. C. Moon, Esq., C.E. ...	5	1 3	269	...	26·48	...	115
D	Sutton Coldfield (Maney)	J. S. Matthewman, Esq. ...	5	0 9	400	...	32·22	194	135
D	Perry Barr Reservoir	C. A. Risbridger, Esq., C.E.	5	1 0	515	...	32·51	180	138
D	Nuneaton (Hartshill Sewage Wks.) ...	R. C. Moon, Esq., C.E. ...	5	1 2	288	...	27·17	161	121
D	Sutton Coldfield (The Park)	Borough Surveyor	5	1 0	370	26·4	32·06	171	136

DIVISION VII—NORTH MIDLAND COUNTIES

	LEICESTERSHIRE. (Area, 824 sq. mi.)								
	1.—SEVERN. Upper Avon. 41 sq. mi.								
D	South Kilworth (Stanford Res.) ...	Borough Engineer	5	0 8	365	...	27·44	174	126
D	Welford (The Reservoir)	Docks & Inland Waterways	5	2 0	430	25·1	28·62	185	125
d	North Kilworth W.W.	Market Harborough U.D.C.	5	1 0	490	...	27·87	...	126
d	Lutterworth (Waterworks)	Surveyor	8	1 9	365	*24·8*	29·63	154	127
	2.—WELLAND. 96 sq. mi.								
d	Market Harboro' (Coventry Road) ...	G. C. Wooldridge, Esq. ...	5	1 0	270	...	26·44	188	119
D	Market Harboro' (Rose Hill) ...	Miss E. Nicholson	5	1 0	350	...	30·13	160	131
D	Kibworth Harcourt	Major A. E. Briggs ...	8	1 2	415	...	29·54	163	137
D	Caldecott (Eye Brook Reservoir) ...	Corby & District Water Co.	8	1 3	180	23·8	25·30	164	145
D	East Norton	Miss E. Wortley	5	1 0	460	...	28·43	130	109
	3.—WITHAM. 7 sq. mi.								
	4.—TRENT. Right Bank Tributaries. 680 sq. mi.								
D	Frolesworth	W. P. Widdowson, Esq. ...	5	1 0	370	...	32·30	191	130
D	Hinckley (Bowling Green Road) ...	S. Webster, Esq.	5	1 0	400	...	30·85	172	134
D	Wistow Hall Gardens	The Lord Cottesloe, C.B. ...	5	1 0	309	23·6	31·06	177	129
D	Countesthorpe (Wigston Sewage Fm.)	Surveyor	8	0 9	257	22·8	29·49	184	127
D	Leicester (London Road)	L. Herbert, Esq.	5	1 0	300	...	28·22	168	123
D	Leicester (Stoughton Drive North) ...	M. Murray, Esq.	5	1 0	240	...	27·03	171	122
D	LEICESTER (General Hospital)	The Steward...	5	1 0	325	...	27·12	158	124
D	*Leicester (De Montfort Square) ...	City Engineer	5	1 0	212	...	26·24	159	119
D	Leicester (Woodville Road)	E. A. Bonser, Esq.	5	1 0	200	...	27·78	183	123
D	†Leicester (The Towers Hospital) ...	The Clerk and Steward ...	8	1 0	266	24·2	27·87	173	126
D	Leicester (Gilroes Cemetery)	City Engineer	5	1 0	294	...	27·96	157	126
D	Osbaston Hall	Sir Thomas Cope, Bart. ...	5	1 7	390	...	28·76	177	121
d	Lowesby Hall Gardens	Head Gardener	5	0 9	517	26·3	29·10	...	...
D	Thornton Reservoir	Leicester W.W.	8	1 2	370	26·2	28·89	162	133
D	Cropston (Bradgate Res.)	Leicester W.W.	8	1 0	245	27·2	30·70	183	131
D	Barkby Hall	Victor R. Pochin, Esq. ...	5	1 0	227	·24·5	27·26	152	120
D	Ulverscroft (Chitterman House) ...	C. Booth, Esq.	5	0 11	666	...	32·47	191	134
D	Netherseal (Chilcote)	R. A. Robertson, Esq., C.E.	5	1 0	240	...	26·09	157	124
D	Swithland (The Brand)...	Leicester W.W.	8	1 0	171	26·0	31·09	197	135
D	Asfordby Hill (Ironworks)	Stanton Ironworks Co. Ltd.	5	1 1	324	*23·0*	24·34	179	118
D	Loughborough (Nanpantan Res.)(+A)	W. Granger, Esq., C.E. ...	5	1 0	269	26·1	31·42	170	121
D	Loughborough (Fairmount Drive) ...	B. N. Wale, Esq., B.Sc. ...	5	0 6	210	...	28·57	165	124
D	Loughborough (Sewage Farm) ...	W. Granger, Esq., C.E. ...	8	1 0	135	23·1	30·38	150	117
d	Burton-on-Wolds (Burton Hall) ...	Earl of Huntingdon ...	5	1 0	270	24·2	26·68	...	134
D	Prestwold Hall Gardens	Mr. L. Brightwell	8	1 0	209	24·7	28·52	162	131
	Scalford	Melton Mowbray U.D.C.	8	0 10	343	...	27·24	...	...
D	Waltham-on-the-Wolds	V. E. Higgens, Esq. ...	5	1 0	570	...	26·59	180	127

* Gauge oversheltered. † Formerly called City Mental Hospital.

DIVISION VII—NORTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	RUTLAND. (Area, 152 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—WELLAND. 125 sq. mi.								
D	Ketton	Mrs. K. Burroughes	5	1 0	106	...	27·48	183	119
	2.—WITHAM. 5 sq. mi.								
	3.—TRENT. Right Bank Tributaries. 22 sq. mi.								
	LINCOLNSHIRE. (Area, 2,645 sq. mi.)								
	1.—NENE. 99 sq. mi.								
D	Crowland	F. Husband-Clutton, Esq.	5	1 0	10	*21·9*	24·53	137	111
D	Tydd (North Level Sluice)	Mr. S. Watson	5	1 0	10	23·3	28·16	186	117
D	Sutton Bridge	S. Holland Drainage Bd	5	1 0	21	...	25·08	166	124
d	Long Sutton (White House Farm)	A. H. Cooke, Esq.	5	1 0	10	...	24·33	...	...
D	Spalding (Weston St. Mary)	R. Welland Catchment Bd.	5	1 0	10	...	22·35	144	113
	2.—WELLAND. 341 sq. mi.								
D	Market Deeping (Wilsthorpe)	F. J. Smith, Esq.	8	1 0	51	20·9	25·86	157	103
D	Barholm	W. Thurlby, Esq.	5	1 2	45	...	25·61	138	119
D	Deeping St. Nicholas	T. R. Pick, Esq.	5	0 9	13	...	23·47	145	115
D	Spalding (Pode Hole)	S. Holland Drainage Bd.	8	1 3	12	23·5	23·17	189	121
D	Spalding (Grammar School)	The Headmaster	5	1 0	15	...	22·67	170	114
D	Bourne (Guthram)	L. I. Clark, Esq., C.E.	5	1 0	3	*21·1*	24·01	155	126
D	Holbeach (Manor Farm)	F. H. Bowser, Esq.	5	2 1	10	...	25·08	143	116
D	Holbeach (Willow Tree Farm)	F. H. Bowser, Esq.	5	2 1	10	...	24·69	135	107
	3.—WITHAM & C. 1,085 sq. mi.								
d	Denton	Culverthorpe Dairy Fm. Ltd.	5	1 6	300	...	24·75	...	...
d	Billingborough	N. Hodgkinson, Esq.	5	0 10	50	...	26·05	149	105
D	Grantham (Saltersford Pump Stn.)	Manager	5	0 6	188	*24·1*	26·65	184	119
D	Kirton (Agricultural Institute)	N.A.A.S.	5	0 10	14	...	24·25	152	106
D	Kirton	Messrs.W.Dennis&Sons,Ltd.	5	1 0	12	...	24·44	173	112
D	Wyberton (Tytton Hall)	L. I. Clark, Esq., C.E.	5	1 0	10	...	25·54	156	118
d	Wyberton (Slippery Gowt Farm)	J. T. Cannon, Esq.	5	1 6	10	...	22·99	...	...
D	Boston (Black Sluice, Skirbeck)	F. H. Tomes, Esq.	8	1 3	11	22·8	25·62	169	122
D	Boston (Cooks Lock)	L. I. Clark, Esq., C.E.	5	1 7	11	...	24·41	163	117
D	Boston (Church Road Pump. Stn.)	Borough Surveyor	5	1 0	8	...	24·74	146	118
D	BOSTON (FREISTON ROAD)	N. H. Middlebrook, Esq.	5	1 0	16	...	25·47	163	119
D	Boston (Grand Sluice)	F. H. Tomes, Esq.	8	0 9	17	*22·9*	25·16	166	120
D	Boston (Amber Hill)	G. Graves, Esq.	5	1 0	...	...	24·28	166	111
D	Boston (Sibsey Road)	A. O. Scrivener, Esq.	8	1 6	9	...	23·59	153	113
D	Boston (Cowbridge)	G. E. Buchner, Esq., C.E.	5	1 0	9	...	24·31	147	115
d	Old Leake (Leverton)	G. E. Buchner, Esq., C.E.	5	1 3	10	...	25·55	125	107
D	CRANWELL (Airfield) (+A)	Meteorological Office	8	1 0	203	23·2	24·64	160	109
d	Ruskington	B. E. Brighton, Esq.	5	1 7	30	...	22·31	108	94
d	Sibsey (Ivydene)	J. T. Allewell, Esq.	5	1 0	20	...	26·79	123	114
D	Wildmore	G. E. Buchner, Esq., C.E.	5	1 0	12	...	23·93	172	110
D	New Leake (Lade Bank Engine)	G. E. Buchner, Esq., C.E.	5	1 3	13	*22·6*	26·49	154	119
D	Carrington Grange	T. J. Ward, Esq.	5	4 0	15	*23·4*	28·85	164	139
d	Wellingore (The Gardens)	A. Calder, Esq.	5	2 0	260	...	24·87	...	...
d	Eastville (Station Farm)	G. A. Freeman, Esq.	5	1 0	8	...	25·71	...	...
d	Carlton-le-Moorland	Mrs. J. Brocklebank	5	1 2	50	*23·3*	24·47	140	123
D	Norton Disney (The Vicarage)	Rev. R. K. Roper	5	1 0	49	...	22·44	130	104
D	East Kirkby (East Kirkby Manor)	Capt. R. S. Fieldsend	5	1 0	35	*23·8*	27·03	176	128
D	Revesby Reservoir	D. H. Ball, Esq.	5	2 0	124	24·5	24·20	139	112
D	Woodhall Spa (Waterworks)	Clerk to the Council	5	1 6	45	...	24·40	155	111

DIVISION VII—NORTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	LINCOLNSHIRE—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—WITHAM & C.—(*contd.*)								
D	Potterhanworth (Old Hall)	T. H. N. Battle, Esq.	5	0 10	50	...	26·74	167	113
D	Horncastle	F. J. Harvey, Esq.	5	1 0	120	*24·8*	24·34	165	111
D	Lincoln (Swallowbeck)	W. R. Pennell, Esq.	8	1 0	34	*22·9*	22·39	158	119
D	Bardney (Sugar Factory)	British Sugar Corp., Ltd.	5	1 0	17	...	25·84	153	115
D	LINCOLN (Beaumont Fee)	Medical Officer of Health	5	1 0	45	...	23·10	168	112
D	Lincoln (Skellingthorpe Hall)	Mrs. Bergne-Coupland	5	1 0	40	23·1	23·27	155	119
D	Lincoln (Eastbourne Street)	R. Osborne, Esq.	8	1 0	51	...	23·51	162	113
D	Lincoln (Burton Road)	G. W. Valley, Esq.	5	1 6	250	...	24·62	168	121
D	Sudbrooke (The Manor House)	Miss A. M. Scorer	5	1 0	55	...	22·67	148	111
D	Hackthorn Hall	Lt.-Col. W. Cracroft-Amcotts	5	4 10	102	*23·2*	26·20	175	117
	4.—GREAT EAU & C. 443 sq. mi.								
D	Boston (Eastville)	G. E. Buchner, Esq., C.E.	5	1 3	3	...	26·60	167	116
D	Firsby	G. E. Buchner, Esq., C.E.	5	1 0	26	...	25·99	165	122
D	SKEGNESS (Marine Gardens)	Surveyor	8	1 0	15	23·3	(26·16)	(173)	(120)
D	Hagworthingham (Manor House)	G. W. Clark, Esq.	5	1 0	200	*27·2*	26·28	149	122
D	Wold Newton Manor	W. Maurice Wright, Esq.	5	1 6	230	*27·2*	29·63	178	132
D	Grainthorpe Council School	Headmaster	5	1 0	9	...	25·64	165	114
	5.—HUMBER. Right Bank Tributaries. 428 sq. mi.								
D	Glentham (Bishopbridge)	A. R. Haynes, Esq.	5	1 1	20	...	25·67	166	116
D	Brigg (Scawby Hall)	Col. O. S. Nelthorpe, C.B.E.	5	1 0	...	...	23·98	168	110
D	Brigg (Sugar Factory)	British Sugar Corp. Ltd.	5	1 0	134	...	24·32	152	113
D	Brigg (Wrawby Road)	A. R. Haynes, Esq.	5	1 1	22	*24·8*	23·30	161	107
D	Cleethorpes (Outfall Pumping Stn.)	Engineer and Surveyor	8	1 0	25	...	22·73	155	110
D	CLEETHORPES (Kings Parade)	Engineer & Surveyor	5	1 0	23	*24·0*	23·58	166	118
D	Grimsby (Little Coates Pump. Stn.)	Engineer & Manager	5	1 0	14	...	26·83	164	123
D	Brocklesby Park	Head Gardener	5	1 9	50	*27·0*	26·39	163	123
D	HABROUGH (Home Farm)	R. F. Blakeborough, Esq.	5	1 0	64	...	26·08	167	121
D	Immingham (Compressor Stn.)	Grimsby R.D.C.	5	1 1	13	...	23·30	156	113
D	Normanby	Major E. C. R. Sheffield	5	1 0	185	...	24·32	163	120
D	Ferriby Sluice	K. Straw, Esq.	5	1 0	18	*24·5*	22·96	152	103
	6.—TRENT. Right Bank Tributaries. 172 sq. mi.								
d	Woolsthorpe	British Railways	5	1 3	182	*23·4*	25·07	135	118
D	Torksey (Pumping Station)	H. Heath, Esq.	8	1 0	22	*23·2*	22·93	174	121
D	Gate Burton Hall	The Hon. Mrs. Sandars	5	4 0	97	*23·1*	23·49	127	114
D	Scunthorpe (Brumby Sec. Mod. School)	Headmaster	5	2 0	100	...	23·44	166	122
	7.—TRENT. Left Bank Tributaries. 77 sq. mi.								
D	Wroot (S. Level Pumping Station)	W. H. Haile, Esq., C.E.	5	1 6	7	...	21·61	152	111
D	West Butterwick (Croft House)	West Butterwick Drain. Bd.	5	... ...	20	...	22·57	145	116
d	Crowle (N. Level Pumping Station)	W. H. Haile, Esq., C.E.	5	2 0	10	22·0	20·87	...	...
	NOTTINGHAMSHIRE. (Area, 843 sq. mi.)								
	1.—WITHAM. 10 sq. mi.								
	2.—TRENT. Right Bank Tributaries. 218 sq. mi.								
D	SUTTON BONINGTON	Principal	5	1 0	157	21·7	26·47	156	119
d	Nottingham (Wilford Hill Res.)	B. W. Davies, Esq., C.E.	8	1 0	295	23·1	24·42	167	109
D	Newark (The Friary)	J. H. Clarke, Esq., C.E.	5	2 0	48	23·4	20.91	151	109
D	Newark (Sewage Works)	J. H. Clarke, Esq., C.E.	5	1 0	33	...	20·38	136	106
d	Kelham (Sugar Factory)	British Sugar Corpn. Ltd.	5	1 0	40	...	20·82	...	104

DIVISION VII—NORTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	NOTTINGHAMSHIRE—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	3.—TRENT. Derwent. 2 sq. mi.								
	4.—TRENT. Erewash. 42 sq. mi.								
D	Nottingham (Strelley)	Miss Edge	8	1 0	396	26·2	27·69	177	121
D	Nottingham (STRELLEY Hall)	Miss Edge	5	1 0	378	...	27·32	174	119
D	Kimberley (Swingate Reservoir)	B. W. Davies, Esq.	8	1 0	448	...	25·24	144	103
D	Eastwood Waterworks	B. W. Davies, Esq., C.E.	8	1 3	243	25·9	30·98	192	133
D	Eastwood (Moorgreen Res.)	British Railways	5	2 0	301	27·4	29·43	176	133
	5.—TRENT. Left Bank Tributaries. 569 sq. mi.								
D	Beeston (Council Depot)	G. C. Hardy, Esq.	5	1 7	97	24·5	23·81	128	103
D	Bramcote Reservoir	B. W. Davies, Esq., C.E.	8	1 0	327	...	26·69	178	120
D	Nottingham (Sneinton P.S.) (+A)	R. M. Finch, Esq., C.E.	8	1 0	83	22·5	24·62	161	116
D	*NOTTINGHAM (The Castle)	R. M. Finch, Esq., C.E.	8	1 0	192	23·6	24·29	159	113
d	Nottingham (Colwick Sugar Fact.)	British Sugar Corpn. Ltd.	5	0 9	70	...	23·51	...	...
D	Nottingham (Colwick Hill Res.)	B. W. Davies, Esq., C.E.	8	1 0	314	...	24·56	162	111
D	Nottingham (Stoke Bardolph)	R. M. Finch, Esq., C.E.	8	1 0	66	22·6	23·76	148	112
D	Nottingham (Mapperley Hill)	Medical Superintendent	8	1 0	400	24·9	25·75	153	124
D	Nottingham (Basford W.W.)	B. W. Davies, Esq., C.E.	8	1 0	168	24·0	25·69	168	123
D	Burton Joyce Waterworks	B. W. Davies, Esq., C.E.	8	1 0	65	25·2	24·23	170	119
D	Nottingham (Woodthorpe)	A. B. Tinn, Esq., F.R.Met.S.	5	1 0	225	24·0	25·99	177	119
D	Daybrook (Red Hill Reservoir)	B. W. Davies, Esq., C.E.	8	1 0	404	25·7	25·72	195	125
D	Daybrook (Ramsdale Hill Res.)	B. W. Davies, Esq., C.E.	8	1 0	504	28·1	26·28	191	129
D	Bulwell Hall Park	R. M. Finch, Esq., C.E.	8	1 0	252	27·3	27·57	165	127
D	WATNALL (Airfield)	Meteorological Office	5	1 0	388	...	28·30	169	118
D	Papplewick (Waterworks)	B. W. Davies, Esq., C.E.	8	1 0	317	26·5	27·11	175	131
D	Southwell (The Nurseries)	H. Merryweather & Sons Ltd.	5	1 0	125	...	25·41	169	123
D	Sutton-in-Ashfield (Rushley P.S.)	P. W. Berridge, Esq.	5	1 0	462	27·1	28·99	165	130
D	Sutton-in-Ashfield (Sewage Wks.) (+A)	A. G. Dunks, Esq.	5	1 0	456	28·9	30·05	203	136
D	Mansfield (Rainworth W.W.)	F. C. Sylvester, Esq.	5	0 8	349	26·8	27·48	180	122
D	Bilsthorpe (Rufford P.S.)	B. W. Davies, Esq., C.E.	8	1 0	277	...	24·34	167	117
D	MANSFIELD (Carr Bank)	Borough Surveyor	8	0 10	357	27·9	25·49	162	119
D	Clipstone Waterworks	F. C. Sylvester, Esq.	5	0 10	225	24·9	24·00	160	117
D	Ollerton (Boughton W.W.)	B. W. Davies, Esq., C.E.	8	1 0	141	24·0	23·05	146	110
D	Tuxford (Lound Hall)	Mr. C. W. Holliday	5	1 3	50	...	22·86	151	111
D	Welbeck Abbey	Duke of Portland	8	1 0	196	...	24·57	181	121
	Elkesley Pumping Station	Lincoln Waterworks	5	1 0	120	23·2	23·05	...	113
D	Worksop (Bracebridge Sewage Wks.)	Borough Engineer	8	1 0	97	23·9	25·03	166	118
D	Worksop (Osberton Gardens)	Capt. R. H. Walker	5	1 6	85	22·8	24·41	181	117
D	Worksop (Sunnyside W.W.)	Borough Engineer	8	1 0	245	...	24·30	161	113
D	Retford (Sir Frederick Milner School)	Headmaster	8	3 6	55	...	21·40	155	105
D	Retford (Sewage Disposal Wks.)	Borough Surveyor	5	1 0	74	...	21·73	144	111
D	Retford (Babworth Hall)	Maj.-Gen. Sir John Whitaker	5	1 6	98	22·9	21·17	170	108
D	Worksop (Wigthorpe Hill)	R. C. P. Ramsden, Esq.	5	1 0	100	23·3	23·62	168	110
D	Harworth Colliery	The National Coal Board	5	1 0	120	23·5	21·94	138	115
D	Gringley Carr Pumping Stn.†	G. H. Simmons, Esq.	5	1 0	21	...	21·24	173	105
	6.—OUSE. Don. 2 sq. mi.								
	DERBYSHIRE. (Area, 1,017 sq. mi.)								
	1.—MERSEY. UPPER. 93 sq. mi.								
M	§Buxton (Goyts Moss)	Stockport Corporation W.W.	5	1 0	1410	51·1	57·00	...	...
M	Buxton (Cat and Fiddle Inn)	Stockport Corporation W.W.	5	1 0	1610	53·7	(60·00)	...	...
M	§Buxton (Berry Clough)	Stockport Corporation W.W.	5	1 0	1550	...	(59·45)	...	...

* Exposure unorthodox in certain directions.

† Station formerly called Misterton (Soss P.S.). § Turf wall round gauge.

DIVISION VII—NORTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	DERBYSHIRE.—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—MERSEY. UPPER—(*contd.*).								
D	§Buxton (Goytsclough)	Stockport Corporation W.W.	5	1 0	1175	...	63·36	211	186
D	§Buxton (Goytshead)	Stockport Corporation W.W.	5	1 0	925	...	58·49	210	184
M	§Buxton (Longhill)	Stockport Corporation W.W.	5	1 0	1390	...	56·20	...	...
M	Buxton (Embridge)	Stockport Corporation W.W.	5	1 0	1430	...	55·75	...	...
D	§Fernilee (Upper Hall)	Stockport Corporation W.W.	5	1 0	940	...	52·15	211	180
D	§Taxal (Oldfield)	Stockport Corporation W.W.	5	1 0	820	...	52·98	210	180
M	§Taxal (Blackhillgate)	Stockport Corporation W.W.	5	1 0	1190	...	48·65	...	...
M	§Hayfield (Dimpus Clough)	Stockport Corporation W.W.	5	1 0	1250	...	46·76	...	...
M	§Hayfield (Upper Sett)	Stockport Corporation W.W.	5	1 0	1420	...	49·64	...	...
M	§Hayfield (Oaken Clough)	Stockport Corporation W.W.	5	1 0	1250	...	43·88	...	...
M	§Hayfield (Tunstead Clough)	Stockport Corporation W.W.	5	1 0	1125	...	43·81	...	...
M	§Hayfield (Red Brook)	Stockport Corporation W.W.	5	1 0	1950	...	54·84	...	...
M	§Hayfield (Kinder Source)	Stockport Corporation W.W.	5	1 0	2050	...	58·28	...	...
D	§Hayfield (Kinder Filters) ... (+A)	Stockport Corporation W.W.	5	1 0	800	...	45·69	212	177
M	§Hayfield (Upper Moor)	Stockport Corporation W.W.	5	1 0	1280	...	49·61	...	...
D	§Hayfield (Hollin Head)	Stockport Corporation W.W.	5	1 0	950	...	50·74	212	189
M	§Hayfield (Middle Moor)	Stockport Corporation W.W.	5	1 0	1170	...	45·12	...	...
M	§Hayfield (Sandy Heys)	Stockport Corporation W.W.	5	1 0	2040	...	57·42	...	...
M	§Hayfield (Leygatehead Moor)... ...	Stockport Corporation W.W.	5	1 0	1530	...	(47·60)	...	...
M	§Hayfield (Mill Hill)	Stockport Corporation W.W.	5	1 0	1625	...	48·76	...	...
D	Glossop W.W. (Swineshaw)	Geo. Faulds, Esq., C.E. ...	5	3 0	733	43·2	43·76	213	168
M	§Torside (Clough Edge)	Manchester Corp. W.W. ...	5	1 0	1452	50·9	52·40	...	...
M	Bleaklow Hill (Dowstone Rocks) ...	Manchester Corp. W.W. ...	5	1 0	1718	...	58·82	...	...
M	§Bleaklow Hill (Far Black Clough) ...	Manchester Corp. W.W. ...	5	1 0	1683	56·7	58·46	...	...
	2.—MERSEY. Weaver. 2 sq. mi.								
D	Buxton (Portobello Bar)	Borough Engineer	8	1 0	1600	55·9	62·06	232	188
	3.—TRENT. Right Bank Tributaries. 68 sq. mi.								
d	Church Gresley (Maurice Lea Park) ...	Swadlincote U.D.C. ...	5	1 0	400	...	28·76	...	130
D	Stanton-by-Bridge W.W.	H. Raven, Esq., C.E. ...	8	1 2	144	24·2	29·67	181	123
	4.—TRENT. Dove. 156 sq. mi.								
D	Rodsley Pumping Station	Engineer	5	1 0	415	...	34·13	203	143
	5.—TRENT. Left Bank Tributaries. 84 sq. mi.								
D	Etwall (Blakeley Lodge)	C. H. Hawley, Esq. ...	5	1 4	189	24·1	28·19	161	119
D	Etwall (Sewage Farm)	Bor. Engineer & Surveyor	5	1 8	201	25·2	29·47	174	126
D	Mickleover (The Pastures Hospital) ...	Medical Superintendent ...	5	0 9	320	24·4	29·06	165	127
D	Chesterfield (Whaley Well)	A. Boothman, Esq., C.E. ...	8	1 2	337	...	25·15	170	121
	6.—TRENT. Derwent. 426 sq. mi.								
D	Spondon (Derby Sewage Works) ...	Borough Engineer, Derby	5	1 3	135	25·5	24·87	164	114
D	Derby (Park Grove)	Messrs J. Davis & Son, Ltd.	5	1 0	198	...	28·93	166	128
d	Derby (Railway)	British Railways	5	1 0	156	25·1	28·92	...	...
D	Derby (Royal Infirmary)	I. W. Owen, Esq.	5	1 0	211	26·3	28·99	180	126
D	Derby (The Arboretum)	Borough Engineer	5	1 6	196	26·2	28·24	168	118
	Derby (Pear Tree School)	J. C. Hill,Esq.	5	0 11	200	...	28·54	...	...
D	Derby (Markeaton Park)	Borough Engineer	5	1 6	190	...	29·38	169	122
D	Breadsall (Smalley Road)	C. H. D. Ham, Esq. ...	5	1 0	280	...	28·32	163	119
D	Breadsall Priory	E. S. Haslam, Esq. ...	5	1 6	370	...	28·81	149	122
D	Duffield (The Kirkstyles)	Messrs J. Davis & Son, Ltd.	5	1 0	235	28·3	33·36	177	136
D	Belper (Herbert Strutt School) ...	Headmaster	5	1 0	203	29·9	29·90	170	127
d	Ambergate Reservoir ... No. 61	Derwent Valley Water Bd.	5	1 0	680	...	34·17	...	...
D	WIRKSWORTH (West End)	Alan D. G. Smith, Esq. ...	5	1 0	590	...	38·98	203	145
d	Wirksworth (Wash Green)	Water Superintendent ...	5	1 0	738	...	37·33	...	...
D	Whatstandwell (Meerbrook Sough) ...	Ilkeston & Heanor Water Bd.	5	1 0	246	33·6	37·31	194	145

§ Turf wall round gauge.

DIVISION VII—NORTH MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	DERBYSHIRE—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	6.—TRENT. Derwent—(*contd.*)								
D	Brackenfield (Lindway Res.)	F. P. Walters, Esq.	5	1 6	595	31·9	35·00	164	123
	Higham (Higham Cliffe)	G. R. Jackson, Esq.	5	0 7	500	...	30·25	...	...
D	Bakewell (Ashford Road)	Miss P. M. Rhodes	5	0 10	500	33·1	37·49	219	145
D	Clay Cross (Press Reservoirs)	D. S. Cuthill, Esq.	8	1 0	810	31·7	34·55	174	137
M	Buxton (Hurdlow Top)	British Railways	8	1 10	1267	...	61·37	...	...
D	Chatsworth Gardens	Head Gardener	5	1 0	436	34·7	33·39	194	139
D	Baslow (School Lane)	Mr. D. Lewis	5	1 6	425	34·5	34·32	193	145
D	Buxton (Stanley Moor)	Borough Engineer	8	1 0	1340	52·1	59·77	232	183
D	Buxton (Burbage Edge)	Borough Engineer	8	1 0	1400	52·8	60·75	232	181
D	Buxton (Ashwood Dale S.W.)	J. H. Legge, Esq.	5	3 0	1010	...	54·40	226	179
D	BUXTON (Terrace Slopes)	Town Clerk	8	1 0	1007	48·4	53·49	220	182
D	Bamford (Engineer's Office)	No. 60 Derwent Valley Water Bd.	8	1 0	509	37·8	37·40	210	157
D	Bamford Filters	No. 70A Derwent Valley Water Bd.	8	1 0	660	39·1	38·53	223	161
D	Holmesfield (Barbrook Res.)	D. S. Cuthill, Esq.	8	1 0	1080	35·6	35·09	226	152
M	Holmesfield (White Edge)	Sheffield Corporation W.W.	5	1 0	1209	...	33·72	...	...
D	Burbage (Lower Burbage)	(+A) Sheffield Corporation W.W.	8	1 0	924	36·2	33·27	217	154
D	Hope (Cement Works)	Messrs. G. & T. Earle Ltd.	5	1 0	580	...	40·59	199	147
D	Hope (Killhill Bridge)	No. 56 Derwent Valley Water Bd.	5	0 9	565	40·4	40·00	211	179
M	Mam Nick	No. 98 Derwent Valley Water Bd.	5	1 0	1368	...	48·85	...	...
M	Dalehead	No. 97 Derwent Valley Water Bd.	5	1 0	1030	...	51·67	...	...
M	Stanage (Redmires)	Sheffield Corporation W.W.	5	1 0	1395	41·7	38·29?	...	...
d	Bamford (Yorkshire Br. Weir)	No. 59B Derwent Valley Water Bd.	5	1 0	560	36·7	38·56	...	...
M	Grain Clough	No. 96A Derwent Valley Water Bd.	5	1 0	999	...	50·37	...	...
d	Edale Mill	No. 84 Derwent Valley Water Bd.	5	1 0	725	...	52·60	...	...
M	Upper Booth	No. 85 Derwent Valley Water Bd.	5	1 0	950	...	50·86	...	...
M	Jacob's Ladder	No. 96 Derwent Valley Water Bd.	5	1 0	1115	...	56·00	...	...
M	Edale End	No. 83 Derwent Valley Water Bd.	5	1 0	632	...	42·90	...	...
M	Grindslow	No. 94 Derwent Valley Water Bd.	5	1 0	940	...	53·10	...	...
M	Crook Hill	No. 92 Derwent Valley Water Bd.	5	1 0	1100	...	42·60	...	...
M	Ladybower	No. 73 Derwent Valley Water Bd.	5	1 0	985	...	41·22	...	...
W	Grimbocar	No. 90 Derwent Valley Water Bd.	5	1 0	700	...	45·61	...	...
M	Nether Moor	No. 93 Derwent Valley Water Bd.	5	1 0	1460	...	51·58	...	...
M	Hagg Farm	No. 81 Derwent Valley Water Bd.	8	1 0	700	...	46·92	...	...
M	§Blackden Brook	No. 89 Derwent Valley Water Bd.	5	1 0	1070	...	61·76	...	...
D	R. Ashop (Weir)	No. 80A Derwent Valley Water Bd.	5	1 0	795	...	(57·97)	(223)	(187)
D	Fairholmes (Nursery)	No. 26A Derwent Valley Water Bd.	5	1 0	685	42·8	45·88	220	175
M	Nether Seal Clough	No. 79B Derwent Valley Water Bd.	5	1 0	1320	...	62·59	...	...
M	§Nether Red Clough	No. 78 Derwent Valley Water Bd.	5	1 0	1370	...	55·91	...	...
W	Mill Brook	No. 91 Derwent Valley Water Bd.	5	1 0	770	...	43·77	...	...
M	§Ashop Head	No. 43A Derwent Valley Water Bd.	5	1 0	1670	...	55·28	...	...
M	Ouzleden Clough	No. 75 Derwent Valley Water Bd.	5	1 0	885	...	49·90	...	...
M	§Urchin Clough	No. 88 Derwent Valley Water Bd.	5	1 0	1190	...	54·68	...	...
M	Alport Moor (Alport Castles)	No. 82 Derwent Valley Water Bd.	5	1 0	975	...	56·50	...	...
W	Derwent Dale (Birchinlee)	No. 23 Derwent Valley Water Bd.	8	1 0	890	50·3	46·16	...	...
M	§Lady Clough Moor	No. 41B Derwent Valley Water Bd.	5	1 0	1720	...	59·31	...	...
M	Featherbed Top	No. 77 Derwent Valley Water Bd.	5	1 0	1665	...	53·89	...	...
D	Derwent Dale (Howden Dam)	No. 17 Derwent Valley Water Bd.	8	1 0	845	47·7	46·14	236	172
W	§Derwent Dale (Ridge Farm)	No. 13A Derwent Valley Water Bd.	5	1 0	883	52·4	52·86	...	...
M	Westend Moor (Blacklow Cote)	No. 15 Derwent Valley Water Bd.	5	1 0	970	51·3	54·12	...	...
M	§Alport Moor	No. 38B Derwent Valley Water Bd.	5	1 0	1790	...	63·90	...	...
M	Deep Grain	No. 74 Derwent Valley Water Bd.	5	1 0	1360	...	61·53	...	...
W	Derwent Dale (Slippery Stones)	No. 62 Derwent Valley Water Bd.	5	1 0	908	49·4	50·52	...	...
M	Ronksley Moor	No. 86 Derwent Valley Water Bd.	5	1 0	1660	...	62·13	...	...
M	Broadhead Clough	No. 63 Derwent Valley Water Bd.	5	1 0	1010	52·8	54·56	...	...
M	Barrow Clough	No. 71 Derwent Valley Water Bd.	5	1 0	1330	...	60·55	...	...

§ Turf wall round gauge.

DIVISION VII—NORTH MIDLAND COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	DERBYSHIRE—(*contd.*).			*in.*	*ft.* *ins.*	*ft.*	*in.*	*in.*		
	7.—TRENT. Erewash. 50 sq. mi.									
	Breaston (Doveridge)		... Frank Cresswell, Esq. ...	5	1 0	115	...	27·50	...	...
D	Long Eaton (Town Hall) ...		... H. Raven, Esq., C.E. ...	8	0 10	105	23·4	25·36	182	127
d	Ilkeston (New Stanton) ...		... Stanton Ironworks Co., Ltd.	5	1 0	150	25·2	26·28	...	...
D	Ilkeston (Sewage Works) ...		... Borough Surveyor	5	1 0	132	...	25·19	148	111
d	Codnor Park		... Docks & Inland Waterways	5	1 0	243	...	33·29	211	134
	8.—OUSE. Don. 138 sq. mi.									
	Chesterfield (Hunger Hill) ...		... A. Boothman, Esq., C.E. ...	5	1 0	643	33·6	35·38	...	...
D	Chesterfield (Whispering Well)		... A. Boothman, Esq., C.E. ...	5	1 0	575	32·5	35·17	191	136
D	Chesterfield (Linacre Res.) ...		... A. Boothman, Esq., C.E. ...	5	1 0	475	31·6	35·02	195	139
D	Chesterfield (Sewage Works) ...		... Manager	5	1 0	225	24·9	27·95	161	121
D	Chesterfield (Crowhole Res.) ...		... D. S. Cuthill, Esq.	5	1 0	605	31·1	33·10	172	145
D	Horsely Gate		... Miss E. Wilson	5	1 0	650	...	34·89	192	142

DIVISION VIII—NORTH-WESTERN COUNTIES

	CHESHIRE. (Area, 1,014 sq. mi.)									
	1.—MERSEY. UPPER. 187 sq. mi.									
D	Langley (Twelve Ashes) ...		... J. H. Dossett, Esq. ...	6	0 9	903	...	45·35	212	169
D	Langley (Trentabank Res.) ...	(+A)	J. H. Dossett, Esq. ...	6	0 9	854	...	44·66	212	168
D	Langley (Bottoms Res.) ...		... J. H. Dossett, Esq.	6	0 9	659	38·5	39·04	196	156
D	Macclesfield (Leadbeaters Res.)		... J. H. Dossett, Esq. ...	5	1 0	608	...	38·03	204	162
D	MACCLESFIELD (West Park) ...		... J. H. Dossett, Esq. ...	5	1 0	500	34·1	38·62	208	160
D	Rainow (The Clough)		... Miss Anna Neave	5	1 3	815	34·4	40·05	196	157
D	Nether Adderley		... J. H. Shelmerdine, Esq. ...	5	0 7	337	...	32·83	186	151
D	Prestbury (Sewage Works) ...	(+A)	F. T. Hambleton, Esq.* ...	5	1 0	320	...	35·67	197	154
	Knutsford (The Sycamores) ...		... H. P. Ashworth, Esq. ...	5	1 0	213	30·3	33·28	...	...
D	Adlington (Styperson House)	(+A)	E. Morton, Esq.**	5	1 0	500	...	34·71	204	152
D	Disley (Lyme Park) (A) ...		... Stockport Corporation W.W.	5	1 0	674	...	39·75	202	169
D	Disley (Higher Stoneridge) ...		... Stockport Corporation W.W.	5	1 0	750	...	40·24	201	167
D	Runcorn (Weston Point) ...		... Weaver Navigation Trustees	8	1 3	30	31·3	30·13	185	140
D	Appleton Reservoir	(+A)	Warrington W.W.	5	1 0	120	...	31·73	206	149
D	Moore (Uplands)		... Lt.-Com. G. K. Rylands, R.N.	5	1 0	120	...	29·99	189	132
D	MANCHESTER (RINGWAY) ...	(+A)	Meteorological Office ...	5	1 0	235	...	33·85	199	147
	High Lane (Light Alders Farm)		... R. B. Melland, Esq. ...	5	1 3	675	...	37·65	209	151
D	Altrincham (Norman's Place) ...		... Miss G. A. Griffiths ...	5	1 0	150	...	33·48	203	143
D	Dunham Massey (Sewage Works)	(+A)	Bucklow R.D.C.*	5	1 0	55	...	32·85	189	144
D	Stockport (Isolation Hospital)		... Medical Officer of Health ...	5	1 3	285	...	33·27	197	138
D	Timperley (Bloomsbury Lane)		... P. Newton, Esq.	5	1 0	98	...	33·81	172	139
D	Timperley (Mayfield Road) ...		... H. Keate, Esq., A.C.A. ...	5	1 0	104	...	33·80	191	150
D	Stockport (Cheadle Heath S.W.)		... Borough Surveyor	8	1 8	135	...	32·57	176	138
D	Stockport (Bredbury Sewage Works)		Bredbury & Romily U.D.C.	5	1 0	150	...	33·16	185	147
D	Sale (Carrington Lane) ...	(+A)	Mersey & Irwell Catcht. Bd.	5	1 0	72	...	31·39	200	147
D	Sale (Sewage Works)		... Manager	5	0 10	58	...	33·00	182	148
D	Romiley (Greave)		... F. Edwards, Esq.	5	1 0	510	...	39·32	221	164
	Godley Reservoir		... Manchester Corpn. W.W.	5	1 0	488	34·8	37·93	218	169
D	Dukinfield (Higher Reservoir)		... M. T. B. Whitson, Esq., C.E.	5	1 0	435	...	38·09	195	167
	Arnfield Reservoir	(+A)	Manchester Corpn. W.W.	5	1 0	512	39·1	39·54	215	165
	Rhodes Wood Reservoir ...		... Manchester Corpn. W.W.	5	1 0	545	42·7	43·74	217	173
	§Hollingworth Hall Moor	...No. 23	Manchester Corpn. W.W.	5	1 0	1194	...	41·85	...	...
	Torside Reservoir		... Manchester Corpn. W.W.	5	1 0	669	...	44·70	239	180
D	Stalybridge (Market Ground Yard.)		... M. T. B. Whitson, Esq., C.E.	5	1 0	373	...	40·24	210	168

§ Turf wall round gauge. * *Per* Cheshire Rivers Catchment Bd. ** *Per* R. Mersey & Irwell Catchment Board.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	CHESHIRE—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	1.—MERSEY. UPPER.—(*contd.*).								
D	Stalybridge (Brushes Filter House)	M. T. B. Whitson, Esq., C.E.	8	1	6 615	39·2	40·57	204	169
W	Higher Swineshaw	M. T. B. Whitson, Esq., C.E.	5	1	0 965	...	43·49	...	...
D	Woodhead Reservoir	Manchester Corpn. W.W.	5	1	0 665	48·3	45·03	221	179
	§Arnfield Moor	Manchester Corpn. W.W.	5	1	0 1290	...	49·48	...	...
	§Pikenaze Moor (Audernshaw Clough)	Manchester Corpn. W.W.	5	1	0 1148	...	53·22	...	...
	§Woodhead (Pikenaze)	Manchester Corpn. W.W.	5	1	0 926	...	46·99	...	...
	§Westend Moor (Stonefold)	Manchester Corpn. W.W.	5	1	0 1691	...	55·54	...	...
	§Withens Moor (West Withens) No. 19	Manchester Corpn. W.W.	5	1	0 1382	...	60·96	...	...
	§Crowden (Meadow Clough)	Manchester Corpn. W.W.	5	1	0 1425	...	63·20	...	...
	§Long Ridge Moss (Near Broadslate)	Manchester Corpn. W.W.	5	1	0 1663	...	65·21	...	...
	§Longside Moss ...No. 26	Manchester Corpn. W.W.	5	1	0 1418	...	57·67	...	...
	§Upper Heyden	Manchester Corpn. W.W.	5	1	0 1708	60·5	60·74	...	...
	§Grains Moss	Manchester Corpn. W.W.	5	1	0 1573	...	(59·50)	...	...
	2.—MERSEY. Weaver. 489 sq. mi.								
D	Audlem (Newholme)	C. Coffin, Esq.*	5	1	0 220	...	29·14	206	141
D	Wirswall Hall	Mrs. Illingworth	5	1	2 505	27·7	26·21	181	147
D	Wybunbury (The Cliffe)	R. H. G. Tatton, Esq.	5	1	3 150	...	28·50	204	137
D	Cholmondeley School (+A)	A. H. Munro, Esq.*	5	1	0 300	...	28·66	203	147
D	Nantwich (Baddiley W.W.)	Mid & S.E. Cheshire W. Bd.	5	1	0 231	28·3	27·98	189	133
D	Nantwich (Dorfold Hall)	Docks & Inland Waterways	8	1	0 190	28·8	29·08	203	144
D	Nantwich (Reaseheath Hall)	Docks & Inland Waterways	8	1	0 130	29·1	27·12	199	142
D	Crewe (Isolation Hospital)	Mid & S.E. Cheshire W. Bd.	5	1	4 181	28·2	27·94	192	149
D	Mow Cop Pumping Station	Mid. & S.E. Cheshire W. Bd.	5	1	0 446	...	31·53	212	148
D	Tarporley (Tilstone Lodge)	Head Gardener	5	1	0 220	28·3	29·77	191	138
D	Eaton (Pumping Station)	Mid & S.E. Cheshire W. Bd.	5	1	0 280	...	30·05	194	145
D	§Congleton (Sewage Works) (+A)	Borough Surveyor	5	1	0 248	30·1	33·31	193	153
D	Congleton (Buglawton Hall)	Docks & Inland Waterways	8	1	0 450	...	35·37	193	153
D	Congleton (Eaton Hall)	Docks & Inland Waterways	8	0	9 400	...	34·58	166	140
D	Bosley Reservoir	Cheshire Rivers Catch. Bd.	5	1	0 500	...	36·52	170	154
D	Middlewich	I.C.I. (Alkali) Ltd.	5	1	0 138	...	30·98	180	140
D	Tarporley (Sandyford Waterworks)	Mid. & S.E. Cheshire W. Bd.	8	...	... 247	...	29·22	190	140
D	Middlewich (Bostock Hall)	Mrs. R. J. Carnegie	5	1	0 157	30·3	31·11	142	116
D	Cranage (Mental Institution)	Clerk and Steward*	5	1	0 170	29·2	38·35	210	171
D	Delamere (Linmere)	Forestry Commission	8	0	9 250	31·7	28·58	181	147
D	Cuddington (Merle Wood)	His Honour Judge Burgis	5	1	0 200	...	30·92	161	138
D	Northwich (Sandiway W.W.)	Mid & S.E. Cheshire W. Bd.	8	1	0 163	32·0	32·12	212	142
D	Northwich (Hunts Lock)	Docks & Inland Waterways	8	1	5 47	30·0	31·66	190	137
D	NORTHWICH (Winnington)	I.C.I. (Alkali) Ltd.	5	1	0 64	29·2	30·97	187	137
D	Chelford (Kennel Bank)	A. M. Haworth, Esq.	5	1	0 263	...	31·60	192	145
D	Chelford (Snelson House)	R. C. Walsh, Esq.	5	1	0 250	...	31·62	175	132
D	Northwich (Lostock Gralam)	I.C.I. (Alkali) Ltd.	5	1	0 75	...	29·61	201	131
D	Northwich (Marbury Road)	Charles Cooper, Esq.	5	1	0 96	...	28·88	190	132
	3.—MERSEY. LOWER & C. 142 sq. mi.								
D	Mouldsworth (Pumping Station)	West Cheshire Water Board	5	1	0 145	...	25·11	186	124
D	Manley (Ravelstone)	A. Haworth, Esq., B.A., J.P.	5	1	0 360	...	29·86	198	141
D	Foxhill (Pumping Station)	Warrington W.W.	5	1	0 155	...	27·96	176	138
D	Hooton W.W.	West Cheshire Water Bd.	5	1	0 97	30·3	28·00	185	133
D	Crosshill Reservoir, *new g.*	E. G. Hutson, Esq., C.E.	5	1	0 212	...	27·57	173	128
D	Heswall (Irby)	K. H. Toogood, Esq.	5	1	0 244	...	26·20	180	132
D	Prenton Waterworks	West Cheshire Water Board	5	1	3 91	28·1	30·07	173	136
D	Birkenhead (BIDSTON OBS'Y.) (+A)	Director	8	1	0 198	27·9	26·16	181	127
D	HOYLAKE (Recreation Ground)	Surveyor	5	1	0 23	28·1	26·07	185	136

§ Turf wall round gauge. * *Per* Cheshire Rivers Catchment Board.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	CHESHIRE—(*contd.*).			*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	4.—DEE. 127 sq. mi.									
D	Eaton Hall Gardens		Mr. G. Miller	5	1	6 62	26·9	26·73	196	143
D	Rowton (Holly Bank)		J. H. Salmon, Esq. ...	5	1	5 213	27·3	24·49	169	120
D	Chester (Sewage Disposal Wks.) ...		C. Greenwood, Esq., C.E.	5	0	6 16	26·1	24·41	162	120
D	Chester (Waterworks)		Engineer	5	0	10 85	26·4	23·54	167	117
	Burton		R. A. L. Billson, Esq. ...	5	1	0 210	...	23·16	...	...
d	West Kirby (Caldy Manor)		Mr. E. Barker	5	6	0 131	...	25·84	...	...
D	West Kirby (Monk's Way)		Miss G. S. Kirkby	5	1	0 113	28·9	25·78	172	127
D	West Kirby (St. Andrew's Vicarage)		Rev. Canon E. F. Robson...	5	1	0 25	27·9	26·16	196	133
	SOUTH LANCASHIRE. (Area, 700 sq. mi.)									
	1.—ALT & C. 103 sq. mi.									
	Liverpool (Mayfield Close)		Rev. C. Decker, F.R.Met.S.	5	2	0 95	...	30·54	...	...
D	Prescot (Knowsley Hall)		Mr. G. E. Twinn	5	1	0 178	...	36·98	211	145
d	Kirby (Estate Works)		F. East, Esq.*	5	1	0 48	...	33·37	208	150
D	Crosby (Merchant Taylors' School) ...		H. Tunley, Esq.	5	0	8 20	...	25·52	191	130
D	Formby (Ince Blundell)		Lancashire County Council†	5	1	0 36	...	36·51	244	166
d	Ormskirk (Bickerstaffe P. Stn.) ...		N. B. Bennett, Esq., C.E. ...	5	0	8 128	33·2	36·32	188	154
d	Ormskirk (Springfield P. Stn.) ...		N. B. Bennett, Esq., C.E. ...	5	0	11 69	33·1	36·74	185	161
d	Formby (Hightown)		Lancashire County Council†	5	1	0 25	...	32·98	248	156
	2.—MERSEY. LOWER. 244 sq. mi.									
D	Garston (Speke Airport) ...	(+A)	Meteorological Office ...	5	1	0 81	...	29·03	187	138
D	Garston Depôt		Liverpool Corporation ...	5	1	0 81	30·7	30·80	200	141
D	Halewood (Sewage Works)		Manager	5	1	2 50	...	32·75	207	151
D	Garston (Grassendale Park)		A. G. Isaacson, Esq. ...	5	1	0 30	30·1	27·62	197	125
D	Widnes (Gas & Water Works) ...		C. E. Dickinson, Esq. ...	5	1	0 34	...	28·87	180	129
D	Liverpool (Lark Lane)		Liverpool Corporation ...	5	9	1 90	...	29·50	206	138
D	Liverpool (Smithdown Road) ...		Liverpool Corporation ...	5	1	0 135	31·7	31·64	209	138
D	Cronton (Pex Hill, Old Res.)		C. E. Dickinson, Esq. ...	5	1	0 228	...	33·85	199	141
D	Liverpool (Monument Place)	(+A)	Liverpool Corporation ...	5	1	3 124	...	30·66	195	129
D	Liverpool (Rathbone Road)		Liverpool Corporation ...	5	1	0 198	34·3	32·73	175	140
D	Liverpool (Breckside Park)		Liverpool Corporation ...	5	0	9 132	33·2	30·02	189	136
D	Liverpool (Queens Drive)		Liverpool Corporation ...	5	1	0 119	33·3	31·87	176	141
D	Warrington (Howley Yard)		Borough Surveyor	8	5	1 26	...	31·45	196	138
D	Winwick Pumping Stn.		Warrington W.W.	5	1	0 115	...	32·06	194	146
	Prescot		Lt.-Col. F. Hibbert, C.E. ...	5	1	0 282	...	32·49	...	...
D	St. Helens (Eccleston Hill)		M. Ward, Esq., C.E. ...	12	1	0 265	33·6	32·86	193	142
D	St. Helens (Victoria Park)		Dr. F. Hauxwell	8	1	5 160	33·9	31·79	190	140
D	Earlstown (Newton Cemetery) ...		T. Gibbs, Esq.	5	1	0 83	33·6	32·71	168	136
d	Lowton (Newton Road)		G. H. Coe, Esq.	5	2	0 121	...	35·03	...	...
D	St. Helens (Windle Hall)		W. H. Pilkington, Esq. ...	5	1	0 160	...	33·31	190	147
D	Litherland (Hatton Hill Pk.)		G. W. Ponsford, Esq., C.E.	5	1	0 59	...	29·73	...	...
d	Leigh (Sewage Works)		T. N. Cockroft, Esq., B.Sc.	8	3	0 67	32·6	32·93	169	143
D	Golborne (Wigan Road)		A. G. Flower, Esq. ...	8	0	6 145	...	38·70	185	155
D	Rainford (St. Helens Road)		Alec O. Mead, Esq. ...	5	0	10 130	...	32·68	195	148
D	Rainford (Rookery Sewage Wks.) ...		Surveyor*	5	1	0 107	...	33·49	175	142
D	Hindley (Platt Bridge Sewage Wks.) ...		Surveyor	8	0	10 91	...	37·12	204	155
	3.—MERSEY. Irwell. 299 sq. mi.									
D	Stretford (Longford Park)		Stretford U.D.C.	8	1	1 85	...	33·73	218	154
d	Manchester (Hullard Park)		Stretford U.D.C.	8	1	1 100	32·4	34·17	...	...
D	Manchester (Old Trafford)		Stretford U.D.C.	8	1	1 107	...	34·29	198	152
D	Urmston (Sew. Wks. Davyhulme) ...		Manchester Cor. Rivers Dpt.	8	1	0 72	30·9	31·78	198	143

* *Per* Lancs C.C. Land Drainage Engineer. † *Per* Land Drainage Engineer.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	SOUTH LANCASHIRE—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—MERSEY. Irwell—(*contd.*).								
D	Patricroft (Eccles Sewage Works)	C. J. Girling, Esq.	5	1 0	71	30·3	30·97	190	141
D	Salford (Weaste Sewage Wks.)	City Engineer	8	1 0	80	...	33·42	198	151
D	MANCHESTER (WHITWORTH PARK)	Manchester University	8	1 0	125	31·7	33·05	203	149
D	Ashton-u-Lyne (Knott Hill Res.)	M. T. B. Whitson, Esq., C.E.	8	1 0	605	...	41·08	233	170
D	Prestwich Sewage Works	The Manager	8	0 10	150	36·6	39·22	205	162
	Prestwich Reservoir	Manchester Corpn. W.W.	5	1 0	357	...	41·71	209	164
D	Prestwich (Heaton Park)	City Engineer, Manchester	8	1 0	312	36·8	42·34	210	171
	Prestwich (Heaton Park Res.)	Manchester Corpn. W.W.	5	1 0	355	37·1	39·17	218	165
D	Oldham Gas Works	C. Busfield, Esq.	5	5 9	602	39·0	41·17	215	172
D	Bolton (Hacken Sewage Wks.)	The Manager	5	1 0	182	...	42·60	197	164
D	Oldham (Brushes Clough) No. 3	C. Busfield, Esq.	5	1 0	921	46·7	48·89	222	188
D	Royton (Public Park)	Park Superintendent	5	1 0	502	...	28·89	215	172
D	BOLTON (Queen's Park) (+A)	Corpn. (E. Hendy, Esq.)	5	1 0	342	43·1	45·96	218	169
D	Bolton (Heaton Reservoir)	Bolton Corporation W.W.	5	1 0	500	43·5	48·37	236	172
	Bolton W.W. (Harpers Farm)	Bolton Corporation W.W.	5	1 0	872	...	49·35	...	...
D	Bolton (Smithhills Hall)	Corporation	5	1 0	510	46·1	49·16	202	168
D	Bury (Sewage Works)	G. R. C. Marsden, Esq.	5	1 0	220	...	38·89	216	165
D	Bury No. 5	British Railways	5	1 0	294	...	42·46	228	175
D	Bury (Greenhill Road)	R. Moore, Esq.	5	2 7	399	...	46·19	196	166
D	Bury (Bridge Hall)	Miss C. Wrigley	8	1 0	270	42·2	42·46	229	170
d	Newhey (Sewage Works)	Mr. J. B. Ogden	8	1 0	513	41·6	43·48	...	173
D	Milnrow (Butterworth Hall)	C. Busfield, Esq.	5	1 0	512	43·8	44·38	214	177
D	Milnrow (Piethorne, Kitcliffe)	C. Busfield, Esq.	5	1 0	766	...	50·38	229	189
D	Milnrow (Piethorne, Cold Greave)	C. Busfield, Esq.	5	1 0	832	46·3	46·63	228	185
D	Rochdale (Roch Mills Sew. Wks.)	S. H. Morgan, Esq., C.E.	5	1 0	363	44·5	41·86	212	166
D	Rochdale (Lord Street)	Rochdale Corpn.	5	4 6	407	...	44·59	209	171
D	Rochdale (Ashworth Moor Res.)	Heywood Water Board	5	1 2	956	...	44·55	214	173
D	Bury (Gin Hall) No. 1	Irwell Valley Water Bd.	5	1 0	475	43·7	48·51	215	178
D	Bury (Gin Hall) No. 2	Irwell Valley Water Bd.	5	1 0	475	44·5	47·43	215	180
D	Bolton W.W. (Springs) No. 2	Bolton Corporation W.W.	5	1 0	810	54·5	60·43	231	180
	Bolton W.W. (Eagley) No. 4	Bolton Corporation W.W.	5	1 0	546	52·3	58·15	...	...
D	Turton (Turton Tower)	Turton U.D.C.	5	1 0	584	...	53·81	213	178
M	Bolton W.W. (Hordern)	Bolton Corporation W.W.	5	1 0	1160	53·6	58·51	...	...
D	Bolton W.W. (Delph)	Bolton Corporation W.W.	5	1 0	710	53·6	58·74	221	184
M	Bolton W.W. (Longworth)	Bolton Corporation W.W.	5	1 0	770	52·4	57·62	...	...
D	Bolton W.W. (Wayoh) No. 3	Bolton Corporation W.W.	5	1 0	608	51·6	57·53	223	182
	§Bolton W.W. (Holden's Farm)	Bolton Corporation W.W.	5	1 0	955	53·0	56·25	...	...
	Bolton W.W. (Top-o'-th'-Brow)	Bolton Corporation W.W.	5	1 0	935	56·5	60·42	...	...
D	Bolton W.W. (Entwistle)	Bolton Corporation W.W.	5	1 0	692	53·8	56·77	223	187
	Bolton W.W. (Bromiley Heys)	Bolton Corporation W.W.	5	1 0	925	51·5	57·76	...	...
	Bolton W.W. (Hulton Pasture)	Bolton Corporation W.W.	5	1 0	1090	...	57·27	...	...
	§Bolton W.W. (Moorside)	Bolton Corporation W.W.	5	1 0	850	50·2	53·66	...	...
	Bolton W.W. (Clough)	Bolton Corporation W.W.	5	1 0	1150	55·4	58·57	...	...
	Bolton W.W. (Cranberry Moss)	Bolton Corporation W.W.	5	1 0	982	53·7	57·41	...	...
	Bolton W.W. (Slater Lane)	Bolton Corporation W.W.	5	1 0	985	51·8	58·17	...	...
	Bolton W.W. (Brown Lowe)	Bolton Corporation W.W.	5	1 0	1200	53·8	56·91	...	...
	Bolton W.W. (Longshoot)	Bolton Corporation W.W.	5	1 0	930	...	57·16	...	...
	Bolton W.W. (Uglow) No. 2	Bolton Corporation W.W.	5	1 0	1090	51·1	53·63	...	...
D	Rochdale (Hamer Pasture Res.)	Rochdale Corporation W.W.	5	1 0	760	48·6	47·73	218	180
D	Rochdale (Naden Filters)	Heywood Water Board	5	1 0	761	...	49·52	208	177
	Norden (Higher Red Lumb)	Heywood Water Board	5	1 2	1125	...	48·06	...	...
W	Norden (Far Knowl Farm)	Heywood Water Board	8	1 3	1000	47·2	53·21	...	...
D	Littleborough (Longden End)	C. Busfield, Esq.	5	1 0	751	47·4	48·73	232	186
D	Littleborough (Hollingworth Lake)	C. Busfield, Esq.	8	1 0	610	40·6	40·88	221	169
D	Littleborough (Broadhead)	C. Busfield, Esq.	8	1 0	1337	...	42·00	237	180

§ Turf wall round gauge.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1943 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	SOUTH LANCASHIRE—(*contd.*).		*in.*	*ft.* *in.*	*ft,*	*in.*	*in.*		
	3.—MERSEY. Irwell.—(*contd.*).								
D	Littleborough (Blackstone Edge)	C. Busfield, Esq.	8	1 0	1268	45.0	47·98	238	183
D	Littleborough (Upper Chelburn)	C. Busfield, Esq.	8	1 0	725	47·5	48·64	225	179
D	Littleborough (Chelburn)	C. Busfield, Esq.	8	1 0	700	...	47·35	225	177
	Ramsbottom (Killgate Brook)	Heywood Water Board	5	1 0	978	...	49·44	...	...
	Ramsbottom (Cheesden Barn)	Heywood Water Board	5	1 0	997	...	49·36	...	...
D	Edenfield (New Hall Nurseries)	Irwell Valley Water Bd.	5	1 0	800	...	50·27	229	175
D	Edenfield (Scout Moor Res.) No. 2	Irwell Valley Water Board	5	1 0	1275	...	66·90	223	195
D	Waterfoot (Cragg Reservoir)	Bacup Borough Council	5	1 0	1325	...	57·19	227	192
D	Waterfoot (Cowpe Reservoir)	Bacup Borough Council	5	1 0	925	...	57·52	227	188
D	Rochdale (Spring Mill Whitworth)	Rochdale Corporation	5	1 0	720	51·5	55·82	202	187
D	Wardle (Watergrove Mill)	Rochdale Corporation	8	2 6	819	...	49·22	235	190
D	Rochdale (Cowm, Whitworth)	Rochdale Corporation	5	1 0	762	51·5	57·04	217	188
D	Helmshore (Musberry Valley)	Irwell Valley Water Bd.	5	1 0	750	...	58·61	228	191
D	Haslingden (Holden Wood) No. 1	Irwell Valley Water Bd.	5	1 0	670	52·1	58·00	228	189
D	Haslingden (Holden Wood) No. 2	Irwell Valley Water Bd.	5	1 0	670	51·4	57·64	228	194
D	Haslingden (Calf Hey) No. 1	Irwell Valley Water Bd.	5	1 0	800	50·9	59·29	227	194
D	Haslingden (Ogden) No. 1	Irwell Valley Water Bd.	5	1 0	740	...	50·20	228	188
D	Haslingden (Ogden) No. 2	Irwell Valley Water Bd.	5	1 0	740	...	56·02	227	188
D	Bacup (Sheephouse Reservoir)	Bacup Borough Council	5	1 0	975	...	61·62	231	196
D	Bacup No. 4	British Railways	5	1 0	875	47·1	55·85	215	185
d	Rawtenstall Cemetery	Bor. Engineer &Surveyor	8	1 1	572	46·3	51·71	...	...
D	Rawtenstall (Greenfold Res.) No. 1	Irwell Valley Water Board	5	1 0	1000	...	47·19	210	184
D	Rawtenstall (Greenfold Res.) No. 2	Irwell Valley Water Board	5	1 0	1025	...	46·90	211	179
D	Rawtenstall (Cloughbottom) No. 1	Irwell Valley Water Board	5	1 0	1025	47·4	49·19	223	187
D	Rawtenstall (Clowbridge Res.) No. 1	Irwell Valley Water Board	5	1 0	930	47·6	49·25	222	190
D	Rawtenstall (Clowbridge Res.) No. 2	Irwell Valley Water Board	5	1 0	930	51·6	52·40	222	190
	4.—MERSEY. UPPER. 54 sq. mi.								
D	Northenden Sewage Wks.	Manchester Cor. Rivers Dpt.	8	1 0	81	...	33·49	182	150
D	Chorlton-cum-Hardy Sewage Works	Manchester Cor. Rivers Dpt.	8	4 6	95	30·5	31·69	189	141
D	Stretford (Sewage Farm)	Stretford U.D.C.	8	1 1	65	...	33·58	191	153
D	Denton (Sewage Works)	Denton U.D.C.	5	1 0	205	...	34·93	187	151
D	Fallowfield (Platt Field Park)	City Engineer, Manchester	8	1 0	118	30·6	34·84	222	161
	Denton Reservoir	Manchester Corpn. W.W.	5	1 0	306	...	38·13	225	157
	Gorton Reservoir	Manchester Corpn. W.W.	5	1 0	263	...	38·81	221	164
D	Ashton-u-Lyne (Henrietta St. Yard)	M. T. B. Whitson, Esq., C.E.	5	1 0	394	37·2	38·70	197	157
D	Lower Swineshaw Reservoir	M. T. B. Whitson, Esq., C.E.	8	1 0	886	43·6	41·99	205	172
W	Swineshaw Moor	M. T. B. Whitson, Esq., C.E.	5	1 0	1340	...	44·83	...	...
	CENTRAL LANCASHIRE. (Area, 536 sq. mi.)								
	1.—RIBBLE & C. 326 sq. mi.								
M	Rivington (Tockholes)	Lt.-Col. F. Hibbert, C.E.	5	1 0	970	...	53·94	...	...
W	Roddlesworth	Lt.-Col. F. Hibbert, C.E.	5	1 0	725	...	48·44	...	...
D	Darwen (Sunnyhurst Hey Res.)	Borough Engineer	8	1 5	915	49·5	51·30	219	183
D	Darwen (Earnsdale Reservoir)	Borough Engineer	8	1 0	705	47·4	51·50	218	182
D	DARWEN (Bold Venture Park)	Medical Officer of Health	8	1 1	724	50·1	52·68	236	185
D	Darwen (Hoddlesden) No. 1	G. McKay, Esq., C.E.	8	1 6	680	49·1	58·29	223	186
D	§Darwen (Daisy Green) No. 1	G. McKay, Esq., C.E.	8	1 6	969	...	55·10	226	190
D	§Darwen (Pickup Bank) No. 2	G. McKay, Esq., C.E.	8	1 6	727	...	54·31	224	185
D	Brindle (Whiteholme)	Miss W. M. Gatty	5	1 8	315	39·3	37·96	195	169
D	Haslingden (Mitchell's House Res.)	A. J. Harrison, Esq.	5	1 6	950	45·0	49·92	226	181
D	Blackburn (Guide Reservoir)	G. McKay, Esq., C.E.	8	1 6	610	44·9	40·22	212	174
D	Blackburn (Witton)	G. McKay, Esq., C.E.	8	1 6	315	42·0	37·14	205	148

§ Turf wall round gauge.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	CENTRAL LANCASHIRE—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	1.—RIBBLE & C.—(*contd.*).								
D	HUTTON (Lancs. C.C. Hort. Station)	Principal	5	1 0	82	35·2	38·26	186	158
D	St. Anne's-on-Sea (South Side)	Medical Officer of Health	5	1 0	25	31·4	34·61	180	147
D	Accrington (Oak Hill Park) (+A)	Borough Engineer	5	1 0	645		46·53	219	174
D	Accrington (Coppy Clough S.W.) (+A)	Borough Engineer	5	1 0	386		43·87	209	156
D	Preston (Moor Park) (+A)	Preston Corporation	8	1 0	110	35·3	38·83	211	154
D	Samlesbury Sewage Works	G. McKay, Esq., C.E.	8	1 6	240	36·9	36·41	202	156
D	Blackpool (SQUIRES GATE)	Meteorological Office	5	1 0	33		36·08	190	147
d	Blackburn (Queens Road)	J. Brennand, Esq.	5	1 1	515		45·13		
W	Causeway Side (Burnley W.W.)	J. Shepherd, Esq., C.E.	5	1 0	1110		52·43		
W	Sheddin (Burnley W.W.)	J. Shepherd, Esq., C.E.	5	1 0	960		51·06		
D	Cant Clough S. Side (Burnley W.W.)	J. Shepherd, Esq., C.E.	5	1 0	903		52·71	230	191
D	Cant Clough N. Side (Burnley W.W.)	J. Shepherd, Esq., C.E.	5	1 0	846		50·75	230	189
W	Rams Clough Head (Burnley W.W.)	J. Shepherd, Esq., C.E.	5	1 0	1236		50·14		
D	Huncoat (Burnley Road Res.)	A. J. Harrison, Esq.	5	1 0	624	43·0	44·80	205	156
D	Rishton (Sewage Works)	The Surveyor	5	1 0	270		41·83	197	163
D	Great Harwood (Parsonage Res.)	G. McKay, Esq., C.E.	8	1 0	631	40·7	39·95	214	166
D	Great Harwood (Kebb Farm)	A. J. Harrison, Esq.	5	1 0	670		47·37	223	183
D	BURNLEY (Queens Park)	Medical Officer of Health	8	1 0	458		40·12	207	164
D	Burnley (Swinden) *upper g.*	J. Shepherd, Esq., C.E.	5	1 0	811	43·6	45·77	225	178
D	Burnley (Swinden) *lower g.*	J. Shepherd, Esq., C.E.	5	1 0	745	44·3	43·36	225	172
W	Extwistle Moor Top (Burnley W.W.)	J. Shepherd, Esq., C.E.	5	1 0	1308		47·98		
d	Padiham (Altham Sewage Works)	Water Engineer, Padiham	5	1 6	225	40·9	41·97		
D	Padiham (Huntroyde)	C. Russell Ingham, Esq.	5	1 0	423	41·1	41·71	194	169
D	Alston Reservoir	E. C. Oakes, Esq., C.E.	8	1 2	330	41·0	42·53	232	173
	Nelson (Red Spa Moor)	Nelson Corporation W.W.	5	1 0	1175		(46·64)		
D	§Nelson (Coldwell Res.) No. 3	Nelson Corporation W.W.	5	1 0	1060		47·40	224	178
D	Nelson (Coldwell Res.) No. 2	Nelson Corporation W.W.	5	1 0	960	46·3	44·90	223	178
D	Whalley (Calderstones Institution)	C. R. Iken, Esq.*	5	1 0	198		42·76	211	160
D	Nelson (Victoria Park)	Nelson Corporation W.W.	5	1 0	375	41·8	40·52	220	174
D	NELSON (Walton Lane) (+A)	Medical Officer of Health	5	1 0	540	40·6	40·56	221	174
	Wycoller (Dean House)	F. R. Boothman, Esq., C.E.	5	1 0	957		45·00		
D	Wycoller (Bank House)	F. R. Boothman, Esq., C.E.	5	1 0	872		47·24	219	177
D	Ribchester Institution	E. G. Heaver, Esq.*	5	1 0	279		43·26	214	165
D	STONYHURST (College)	Director	8	1 10	377	46·5	47·27	211	170
D	Cowley Brook (Preston W.W.)	E. C. Oakes, Esq., C.E.	8	1 2	616		48·84	225	179
D	Spade Mill (Preston W.W.)	E. C. Oakes, Esq., C.E.	8	1 2	374	41·7	44·42	223	173
	Jeffrey Hill (Preston W.W.)	E. C. Oakes, Esq., C.E.	8	1 2	900	47·3	47·55		
D	Sabden (Churn Clough Res.)	Water Engineer, Padiham	5	1 0	790	41·2	45·36	211	180
	Sabden (Craggs Dole)	Water Engineer, Padiham	8	1 0	1050	46·0	47·89		
D	§Barley (Ogden Reservoir)	Nelson Corporation W.W.	5	1 0	908		52·05	222	179
D	§Pendle Hill (Buttock)	Nelson Corporation W.W.	5	1 0	1175	49·9	55·43	225	189
D	Colne (Swinden Sewage Works)	Borough Engineer	5	1 0	423	42·0	39·72	207	177
D	Colne (Judge Fields)	Borough Engineer	5	1 0	558		42·45	219	169
	Barrowford Reservoir	Docks & Inland Waterways	8	1 0	473	41·0	44·43		
	§Nelson (Blackmoss Reservoir)	Nelson Corporation. W.W.	5	1 0	830		51·97		
	Foulridge (Upper Reservoir)	Docks & Inland Waterways	8	1 0	582	40·5	40·83		
	Foulridge (Reedymoor)	Docks & Inland Waterways	5	1 0	553		39·19		
D	Chatburn School	E. P. Aldersley, Esq.	5	0 11	322	43·0	39·51	196	169
	Clitheroe (Downham Hall)	Sir R. C. Assheton, Bart.	5	1 6	464		39·11		
	2.—RIBBLE. Douglas. 156 sq. mi.								
D	Wigan W.W. (Billinge Higher End)	Borough Engineer	5	1 0	374		36·58	177	149
D	Wigan (Grammar School)	Headmaster	5	0 9	120		37·02	189	151
d	Wigan (Gidlow Mod. Sec. School)	Headmistress	8	0 11	150		34·10	187	147
D	Wigan W.W. (Worthington)	Borough Engineer	5	1 0	225	35·4	40·48	205	157

§ Turf wall round gauge. * *Per* Lancs. C.C. Land Drainage Engineer.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	CENTRAL LANCASHIRE—(*contd.*).			*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—RIBBLE. Douglas—(*contd.*).									
D	Appley Bridge		Lancashire County Council*	5	1 0	375	...	37·02	183	153
D	Horwich (Lower Rivington)		Lt.-Col. F. Hibbert, C.E.	5	1 0	440	38·7	41·09	208	163
W	Horwich (Lower Knoll)		Lt.-Col. F. Hibbert, C.E.	5	1 6	742	41·2	41·75?	...	...
W	Rivington (Hordern Stoops)		Lt.-Col. F. Hibbert, C.E.	5	1 0	1065	...	49·48	...	...
W	Rivington (Brown Hill)		Lt.-Col. F. Hibbert, C.E.	5	1 0	727	...	47·08	...	...
D	§Rivington (Stones House)		Lt.-Col. F. Hibbert, C.E.	5	1 0	607	...	43·29	235	169
W	‖Rivington (Hurst Hill)		Lt.-Col. F. Hibbert, C.E.	5	1 0	1029	...	44·98	...	...
W	‖Rivington (Great Hill)		Lt.-Col. F. Hibbert, C.E.	5	1 0	1240	...	50·99	...	...
W	‖Rivington (Coppice Stile)		Lt.-Col. F. Hibbert, C.E.	5	1 0	879	...	43·24	...	...
	Rivington (Pimms)		Lt.-Col. F. Hibbert, C.E.	5	1 0	987	...	53·98	...	...
W	Rivington (Gamekeeper's)		Lt.-Col. F. Hibbert, C.E.	8	1 1	850	45·4	47·71	...	...
W	Chorley (Filter Beds)		Lt.-Col. F. Hibbert, C.E.	8	1 0	430	...	44·17	...	...
D	Chorley (Common Bank Sew. Wks.)		J. Slater, Esq.	5	1 0	186	...	37·76	191	153
D	Chorley (Cowling Sewage Works)		Borough Engineer	5	1 0	262	...	42·10	198	158
d	Bretherton (Bank Hall)		R. Douglas Catchment Bd.*	5	1 0	20	...	34·94	201	155
D	Bamber Bridge (Cuerden Hall)		J. Alleyne Robinson, Esq.	5	1 0	230	35·7	38·93	200	166
	3.—COAST STREAMS. 52 sq. mi.									
D	Formby (The Dunes)		J. Harold Coney, Esq.	5	0 9	30	29·8	33·68	190	150
D	SOUTHPORT (BEDFORD ROAD PARK)		Town Clerk	5	1 0	35	32·0	35·56	187	146
D	Rufford (Pulmonary Hospital)		Head Gardener*	5	1 0	38	...	34·37	176	147
D	Southport (Hesketh Park)	(+A)	Town Clerk	8	1 0	37	32·0	35·26	191	143
D	Crossens Pumping Stn.		L. J. Lepine, Esq.	5	0 4	15	...	32·82	177	151
	4.—OUSE. Aire. 2 sq. mi.									
d	Watersheddles Res.	No. 2	G. E. V. Boldry, Esq., C.E.	5	1 0	1115	...	50·93	227	182
	Foulridge (Canal Office)		Docks & Inland Waterways	8	1 0	497	43·5	42·33	...	...
	NORTH LANCASHIRE. (Area, 609 sq. mi.)									
	1.—DUDDON & C. 77 sq. mi.									
D	Barrow-in-Furness (Gas Works)		Engineer	5	1 0	17	37·6	43·03	197	154
D	Barrow-in-Furness (Sew. Wks.)	(+A)	J. N. Flitcroft, Esq., C.E.	5	1 0	20	39·3	43·25	217	151
	Barrow-in-Furness (Risedale M. Sch.)		Headmaster	5	1 0	55	...	40·59	...	...
D	Barrow-in-Furness (Abbey Road)		P. M. Rainey, Esq.	5	1 0	128	...	40·22	187	148
D	Ulverston (Poaka Beck)		Engineer, Barrow	5	1 6	512	52·1	55·68	225	177
W	§Duddon Valley (Seathwaite Tarn)		Engineer, Barrow	5	1 0	1221	92·7	108·56	...	...
	2.—LEVEN & C. 135 sq. mi.									
D	Ulverston (Pengwerne)		C. J. Chapman, Esq.	5	1 2	124	50·1	57·07	230	176
D	Haverthwaite (Outwood)		Sir Bryan Fell, K.C.M.G.	5	1 0	65	...	64·33	220	179
D	Cartmel Fell (Tower Wood)		Windermere U.D.C.	5	1 0	150	...	68·46	226	169
	Cartmel Fell (Ghyll Head Res.)		F. C. Needham, Esq.	8	1 0	420	63·1	69·34	...	...
D	Coniston (Thwaite Cottage)		E. W. Graham, Esq.	5	1 0	150	...	95·67	227	196
D	Coniston (Holywath)		Major J. W. B. Hext	8	0 9	250	...	108·67	242	206
d	Hawkshead (Low House, Sawrey)		Mrs. W. H. Baines	5	1 0	342	65·3	78·96	...	...
D	Hawkshead (Wraymires Fisheries)		Freshwater Biological Assoc.	5	1 0	271	...	78·35	232	193
D	Hawkshead Hill		Miss R. E. Sugden, B.A.	5	1 0	600	...	94·35	228	198
d	High Wray (Wray Castle)		Freshwater Biological Assoc.	5	1 0	202	...	81·36	...	...
	3.—KENT & C. 45 sq. mi.									
d	Heysham Harbour		British Railways	5	1 0	36	34·7	39·44	...	...
D	MORECAMBE		Town Clerk	8	1 0	23	37·0	38·99	190	148
D	Morecambe (Stuart Avenue)		H. W. Apperley, Esq.	5	1 0	18	...	42·76	197	158
D	Morecambe (Bare Lane)		K. M. Wolstencroft, Esq.	5	0 11	20	...	41·33	200	160
D	Carnforth (Priest Hutton)		H. Wilson, Esq.	5	1 0	100	...	45·85	223	164
D	Lindale (Ellerhow)		Lady Tomlinson	5	1 0	300	51·4	56·71	219	171

* *Per* Lancs. C.C. Land Drainage Engineer. § Turf wall round gauge. ‖ Gauge over-exposed on moor.

DIVISION VIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with .01 in. or more	Days with .04 in. or more
	NORTH LANCASHIRE—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	4.—LUNE. 135 sq. mi.								
D	Hampson-in-Ellel	John Welch, Esq.	5	1 0	145	38·3	42·36	231	171
D	Lancaster (Blea Tarn Res.)	L. Lyons, Esq., C.E.	5	1 0	330	...	49·67	214	167
D	Lancaster (Stodday)	L. Lyons, Esq., C.E.	5	1 0	25	...	42·36	190	158
D	Lancaster (Lune Aqueduct)	Docks & Inland Waterways	8	1 0	74	38·4	43·06	195	163
	5.—WYRE & C. 213 sq. mi.								
D	Hornby (The Snab)	A. T. Storey, Esq.	5	1 0	110	...	46·33	206	175
D	Weeton Reservoir	No. 1 Fylde Water Board	5	1 0	133	36·6	39·28	208	154
D	Fulwood W.W. (Haighton Res.)	Engineer and Surveyor*	5	1 0	264	...	41·36	196	154
D	BLACKPOOL (Stanley Park)	(+A) Medical Officer of Health	5	1 0	65	33·4	37·17	196	143
D	St. Michael's-on-Wyre (Fairway)	E. W. Hornby, Esq.	5	1 0	26	36·0	38·13	203	153
D	Fulwood W.W. (Barnsfold Res.)	Engineer & Surveyor*	5	1 0	508	...	46·87	226	169
D	FLEETWOOD (Memorial Park)	Town Clerk	5	1 0	21	...	39·05	202	159
D	Garstang (Barnacre Reservoir)	Fylde Water Board	5	1 0	616	45·7	48·02	215	165
D	Garstang (Grizedale Reservoir)	Fylde Water Board	5	1 0	517	43·6	44·62	212	165
	Garstang (Calder Intake)	Fylde Water Board	5	1 0	632	46·6	48·57	...	...
D	Garstang (Scorton)	W. G. Richmond, Esq.	5	1 0	92	...	42·48	203	163
	Garstang (Grizedale Intake)	Fylde Water Board	5	1 0	644	46·6	46·64	...	...
D	Wyresdale (Abbeystead Res.)	L. Lyons, Esq., C.E.	5	1 0	366	47·9	54·10	214	186
D	Abbeystead Gardens	Mr. Geo. Penk	5	1 0	420	50·1	51·91	217	181
D	Damas Ghyll Reservoir	L. Lyons, Esq., C.E.	5	1 0	590	...	52·60	217	180
M	Quernmore (Old Gauge Basin)	L. Lyons, Esq., C.E.	8	1 0	963	46·1	57·91	...	...
M	Quernmore (Hare Syke)	L. Lyons, Esq., C.E.	5	1 0	1610	...	70·60	...	...
	6.—INSULAR. 4 sq. mi.								

DIVISION IX—YORKSHIRE

	WEST RIDING. (Area, 2,803 sq. mi.)								
	1.—LUNE. 178 sq. mi.								
D	High Bentham (Inglefield)	Geoffrey Holmes, Esq.	5	1 0	412	...	46·92	209	173
D	Sedbergh (Brigflatts)	The Misses Wilson	5	1 0	305	53·0	67·45	226	190
D	Sedbergh School	H. Dawson, Esq.	5	1 0	400	...	59·24	219	174
	2.—RIBBLE. 225 sq. mi.								
D	Colne (Lower Coppy)	F. R. Boothman, Esq., C.E.	5	1 7	975	...	45·52	217	174
D	Colne (Laneshaw Res.)	F. R. Boothman, Esq., C.E.	5	1 9	795	...	45·22	219	177
	Barnoldswick (Greenberfield, 1)	Docks & Inland Waterways	8	1 0	488	41·5	39·22	...	...
	Slaidburn (Hareden Fell)	E. C. Oakes, Esq., C.E.	8	1 2	1300	...	79·25	...	...
D	Slaidburn (Hareden Valley)	E. C. Oakes, Esq., C.E.	8	1 2	563	68·3	75·05	254	198
D	Slaidburn (Langden Brook)	E. C. Oakes, Esq., C.E.	8	1 2	559	68·6	79·53	236	194
	Slaidburn (Holdron Moss)	E. C. Oakes, Esq., C.E.	8	1 2	1300	...	78·43	...	...
D	Slaidburn (Dunsop Houses)	G. McKay, Esq., C.E.	8	1 6	450	62·9	67·97	209	194
	Slaidburn (Middle Knoll)	G. McKay, Esq., C.E.	5	1 0	1288	67·5	71·99	...	...
D	Slaidburn (Brennand)	G. McKay, Esq., C.E.	8	1 6	820	68·3	71·07	206	192
d	Slaidburn (Croasdale House)	G. McKay, Esq., C.E.	8	1 6	600	51·0	61·42	...	...
D	Slaidburn (Stocks)	No. 10 Fylde Water Board	5	1 0	658	...	61·35	229	197
D	Slaidburn (Stocks)	No. 11 Fylde Water Board	5	1 0	629	...	63·19	230	199
d	Slaidburn (Croasdale Valley)	G. McKay, Esq., C.E.	8	1 6	720	...	66·17	...	...
D	Slaidburn (Whitendale)	G. McKay, Esq., C.E.	8	1 6	830	70·0	76·74	205	193
	Slaidburn (Dalehead)	Fylde Water Board	5	1 0	610	...	61·15	...	...
M	Slaidburn (Cabin Hill)	G. McKay, Esq., C.E.	5	1 0	1559	68·5	65·75?	...	...
M	Slaidburn (Baxton Fell)	G. McKay, Esq., C.E.	5	1 0	1525	75·8	84·72	...	...
	Slaidburn (Saddle Hill)	G. McKay, Esq., C.E.	5	1 0	1425	...	72·16	...	...

* *Per* Lancashire C.C. Land Drainage Engineer.

DIVISION IX—YORKSHIRE—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	WEST RIDING—(*contd.*).			*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	2.—RIBBLE.—(*contd.*).									
	Settle (Catlow)		... Fylde Water Board ...	5	1	0 827	...	69·78	...	...
	Settle (Lamb Hill)		... Fylde Water Board ...	5	1	0 1328	...	76·03	...	...
D	Settle (Gas Works)		... J. E. Ashworth, Esq. ...	8	2	6 450	43·9	47·96	218	173
d	Giggleswick (Belfield)		... E. H. Horner, Esq. ...	5	1	0 600	...	44·58	...	...
	3.—MERSEY. Irwell. 2 sq. mi.									
D	Oldham (Strinesdale)		... C. Busfield, Esq.	5	1	0 791	44·7	41·29	207	173
	4.—MERSEY. UPPER. 35 sq. mi.									
	Greenfield (Chew, Blindstones)		... M. T. B. Whitson, Esq., C.E.	5	1	0 1745	...	56·99	...	...
	Greenfield (Chew Great Gruff)		... M. T. B. Whitson, Esq., C.E.	5	1	0 1650	...	52·34	...	...
D	Greenfield (Chew Mount) ...		... M. T. B. Whitson, Esq., C.E.	5	1	0 1578	50·7	55·33	242	197
	Greenfield (Chew Reservoir) ...		... M. T. B. Whitson, Esq., C.E.	5	1	0 1648	...	55·90	...	...
D	Greenfield (Lower Chew) ...		... M. T. B. Whitson, Esq., C.E.	5	1	0 825	...	51·51	223	189
	Greenfield (Chew Sluice) ...		... M. T. B. Whitson, Esq., C.E.	5	1	0 1670	...	55·82	...	...
D	Greenfield (Sewage Disposal Works)		... Manager	5	1	1 499	...	43·85	208	181
D	Greenfield (Yeoman Hey) ...		... M. T. B. Whitson, Esq., C.E.	5	1	0 784	49·1	50·82	227	188
W	Greenfield (Ashway Moss) ...		... M. T. B. Whitson, Esq., C.E.	5	1	0 1581	...	51·77	...	...
W	Greenfield (Birchen Clough) ...		... M. T. B. Whitson, Esq., C.E.	5	1	0 1018	51·4	50·77	...	...
W	Greenfield (Upperwood Moor)		... M. T. B. Whitson, Esq., C.E.	5	1	0 1518	...	51·07	...	...
	Saddleworth Station		... Docks & Inland Waterways	5	1	0 574	...	48·05	...	...
D	Standedge (Cas. Shaw Broadhead)		... C. Busfield, Esq.	8	1	0 857	51·5	52·60	257	208
d	Denshaw C. E. School		Head Teacher	8	1	1 870	...	50·00	...	192
D	Denshaw (Ox Hey)		... C. Busfield, Esq.	8	1	0 1031	48·9	45·53	235	188
D	Denshaw (Crawshaw Hey) ...		... C. Busfield, Esq.	8	1	0 956	48·5	44·71	235	191
D	Denshaw (New Year's Bridge)		... C. Busfield, Esq.	8	1	0 986	...	43·32	235	185
	5.—TRENT. Derwent. 9 sq. mi.									
D	Burbage (Parson's House) ...		... Sheffield Corporation W.W.	8	1	0 1307	36·1	36·07	223	159
	Burbage (Higger Lodge) ...		... Sheffield Corporation W.W.	5	1	0 1225	36·8	36·11	...	...
	§Burbage (Upper Burbage) ...		... Sheffield Corporation W.W.	5	1	0 1364	38·1	37·56	...	...
M	Derwent Dale (Howden Dean)	No. 72	Derwent Valley Water Bd.	5	1	0 960	...	47·65	...	...
M	§Derwent Dale (Howden Cl'gh)	No. 64A	Derwent Valley Water Bd....	5	1	0 1010	44·4	44·71	...	...
M	§Derwent Dale (Sandy Lee)	...No. 7A	Derwent Valley Water Bd.	5	1	0 1320	...	(56·15)	...	...
	6.—TRENT. Left Bank Tributaries. 143 sq. mi.									
D	Tickhill (Dadsley Road) ...		... K. G. Brown, Esq.	5	1	0 60	...	22·47	172	104
D	Austerfield Pumping Station ...		... Doncaster & Tickhill W. Bd.	8	1	0 32	...	20·88	169	99
D	Rossington Main Colliery ...		... National Coal Board ...	5	1	0 22	...	22·96	164	114
D	FINNINGLEY (Airfield) ...	(+A)	Meteorological Office ...	5	1	1 28	...	20·10	169	106
D	Balby (Sewage Works) ...	(+A)	W. H. Price, Esq., C.E. ...	5	1	0 29	...	23·03	160	116
D	Doncaster (Low Pasture P.S.)...		... W. H. Price, Esq., C.E. ...	5	1	0 24	...	21·54	168	106
	7.—OUSE. Don. 574 sq. mi.									
	Burbage (Badger House) ...		... Sheffield Corporation W.W.	5	1	0 1138	...	37·05	...	...
D	Sheffield W.W. (Redmires R.)...	(R)	Sheffield Corporation W.W.	10	5	0 1110	40·3	40·56	235	159
D	Sheffield W.W. (Redmires R.)	...	Sheffield Corporation W.W.	5	1	0 1110	41·0	40·27	231	162
	Rivelin (Oaking Clough) ...		... Sheffield Corporation W.W.	8	1	0 1160	39·8	38·42	...	...
	Rivelin (Oaking Clough) ...	No. 2	Sheffield Corporation W.W.	5	1	0 1185	...	40·26	...	...
	Rivelin (Middle Moss) ...		... Sheffield Corporation W.W.	5	1	0 1168	41·0	43·23	...	...
D	Sheffield W.W. (Rivelin) ...	(+A)	Sheffield Corporation W.W.	8	1	6 564	35·2	36·33	203	155
	Sheffield W.W. (Black Clough)	...	Sheffield Corporation W.W.	5	1	0 1175	40·3	43·00	...	...
D	Sheffield W.W. (Crookes) ...		... Sheffield Corporation W.W.	5	1	0 629	31·0	31·17	202	148
D	SHEFFIELD (Weston Park) ...		... The Corporation	5	1	0 428	30·4	28·95	190	127
	Loxley Valley (Crawshaw Wood)		... Sheffield Corporation W.W.	5	1	0 1175	...	40·73	...	...

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	WEST RIDING—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	7.—OUSE. Don.—(*contd.*).								
	Loxley Valley (Broadcar)	Sheffield Corporation W.W.	5	1 0	1004	44·4	42·95	...	...
	Loxley Valley (Oakes Fm. Damflask)	Sheffield Corporation W.W.	5	1 0	650	36·1	38·16	...	...
	Loxley Valley (Loftshaw, Strines) ...	Sheffield Corporation W.W.	5	1 0	1011	43·2	42·43	...	...
D	Loxley Valley (Bradfield Filters) ...	Sheffield Corporation W.W.	8	1 0	551	...	38·58	221	166
D	Loxley Valley (Dale Dike Res.) ...	Sheffield Corporation W.W.	8	1 0	715	41·9	42·02	230	178
	Loxley Valley (Brogging Moss) ...	Sheffield Corporation W.W.	5	1 0	1360	...	47·31	...	...
	Loxley Valley (Thornseat)	Sheffield Corporation W.W.	5	1 0	1326	42·6	43·05	...	...
	Loxley Valley (Rocher Flat)	Sheffield Corporation W.W.	5	1 0	1106	...	37·67	...	...
	Loxley Valley (Emlin Moor)	Sheffield Corporation W.W.	5	1 0	998	41·3	42·75	...	...
	§Loxley Valley (White Lee Moor) ...	Sheffield Corporation W.W.	5	1 0	1170	...	43·11	...	...
	Loxley Valley (Hobson Moss) ...	Sheffield Corporation W.W.	5	1 0	1530	...	45·32	...	...
D	Rotherham (Ulley Res.) ... No. 2	E. J. Manson, Esq., C.E.	5	1 0	184	23·4	23·19	150	118
D	Rotherham (Ulley Res.) ... No. 3	E. J. Manson, Esq., C.E.	5	1 0	132	23·2	23·50	150	119
D	Wincobank (Sewage Works)	J. H. Edmondson, Esq. ...	5	1 6	110	23·0	22·80	170	109
D	ROTHERHAM (Broom Lane)	L. Atkinson, Esq.	5	1 0	284	...	23·06	173	116
D	Rotherham (Ramsden Road)	H. V. Radcliffe, Esq. ...	5	1 0	180	...	21·95	150	113
D	Rotherham (Kimberworth School) ...	E. J. Manson, Esq., C.E.	5	1 0	258	24·7	24·33	168	118
D	Rotherham (Thrybergh)	W. H. Price, Esq., C.E. ...	8	1 0	184	23·8	24·57	191	119
D	Ecclesfield (Sewage Works)	J. Gregory, Esq., C.E. ...	5	0 7	172	25·6	26·02	177	126
D	Conisborough (Firsby Res.)	W. H. Price, Esq., C.E. ...	8	1 3	189	26·1	25·59	189	125
	§Ewden (Middle Moss)	Sheffield Corporation W.W.	5	1 0	1600	51·0	53·44	...	...
	Ewden (Broomhead Moor)	Sheffield Corporation W.W.	5	1 0	1370	47·8	45·38	...	...
D	Ewden (Canyard Brook)	Sheffield Corporation W.W.	5	1 0	585	...	40·44	204	163
	Ewden (Candle Rush)	Sheffield Corporation W.W.	5	1 0	1400	...	51·73	...	...
	Ewden (Broomhead Hall)	Sheffield Corporation W.W.	5	1 0	905	42·1	38·17	...	...
D	Ewden (More Hall Reservoir)... ...	Sheffield Corporation W.W.	8	1 6	408	33·9	32·57	200	142
D	Ewden (Broomhead Res.)	Sheffield Corporation W.W.	5	1 0	484	...	37·81	204	154
	Ewden (Margery Hill) ... ... No. 2	Sheffield Corporation W.W.	5	1 0	1784	52·3	56·63	...	...
	Ewden (Brown Edge)	Sheffield Corporation W.W.	5	1 0	1325	50·5	49·26	...	...
D	Wentworth Woodhouse	Mr. A. Wilson	5	0 10	360	27·2	24·24	...	...
d	Wortley (Service Reservoir)	W. G. Lees, Esq., C.E. ...	5	1 0	700	30·0	29·98	217	144
D	Midhope Moor (Barnside)	W. G. Lees, Esq., C.E. ...	5	1 0	1000	43·4	49·57	243	186
	Little Don Val. (Laund Clough) ...	Sheffield Corporation W.W.	5	1 0	1515	...	56·94	...	...
D	Little Don Val. (Underbank Res.) ...	Sheffield Corporation W.W.	8	1 6	604	36·8	36·80	213	153
	Little Don Val. (Brockholes)	Sheffield Corporation W.W.	5	1 0	902	37·6	36·61	...	...
	Little Don Val. (Sheep House) ...	Sheffield Corporation W.W.	5	1 6	945	34·6	34·64	...	...
D	Langsett Moor (Midhope)	W. G. Lees, Esq., C.E. ...	5	1 0	823	...	46·59	216	172
d	Langsett Moor (Upper Midhope) ...	Sheffield Corporation W.W.	8	1 6	925	41·6	43·45	238	165
	§Langsett Moor (Mickleden)	Sheffield Corporation W.W.	5	1 0	1217	48·0	53·25	...	...
	Langsett Moor (Mickleden Edge) ...	Sheffield Corporation W.W.	5	1 0	1110	50·3	56·54	...	...
	Langsett Moor (Catclough)	Sheffield Corporation W.W.	8	1 0	1516	47·8	57·79	...	...
	§Langsett Moor (Fiddlers Green) ...	Sheffield Corporation W.W.	8	1 6	1493	48·7	54·79	...	...
	Langsett Moor (Fiddlers G..) *Check*	Sheffield Corporation W.W.	5	1 0	1480	49·1	55·06	...	...
	Dunford Bridge (Woodland Cl.) No. 11	D. E. Strachan, Esq., C.E.	5	1 0	1440	...	58·50	...	...
	§Dunford Bridge (Brown's Cl'gh) No. 10	D. E. Strachan, Esq., C.E.	5	1 0	1405	...	61·80	...	...
	Langsett Moor (Border Hill)	Sheffield Corporation W.W.	5	1 0	1148	46·9	49·28	...	...
D	Langsett Moor (Swinden Lodge) (+A)	Sheffield Corporation W.W.	8	1 0	1032	44·0	46·05	261	186
D	Langsett Moor (Flouch Road) ...	Sheffield Corporation W.W.	8	1 0	960	42·2	44·74	241	166
d	Thurgoland (Spring House)	Major K. C. Banks... ...	5	1 0	610	...	29·40	176	134
D	Wath-upon-Dearne (Chapel St.) ...	The Water Engineer ...	8	1 3	188	24·8	25·25	177	116
D	Hoyland Nether (King St.)	Dearne Valley Water Bd. ...	5	1 6	500	...	24·79	172	119
W	§Hazlehead (Town Brook Intake) ...	W. G. Lees, Esq., C.E. ...	5	1 0	1037	...	47·83	...	...
W	§Dunford Bridge (Long Grain) ...	W. G. Lees, Esq., C.E. ...	5	1 0	1150	...	53·30	...	...
d	§Wogden Foot (Cat Clough)	W. G. Lees, C.E.	5	1 0	889	...	49·23	...	...
D	Doncaster (Pumping Station) ...	W. H. Price, Esq., C.E. ...	5	1 0	31	...	21·76	156	112

§Turf wall round gauge.

DIVISION IX—YORKSHIRE—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	WEST RIDING—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	7.—OUSE—(*contd.*).								
D	Bolton-on-Dearne (Goldthorpe)	... Dearne Valley Water Board	5	1 6	93	24·3	22·79	162	95
	§Dunford Bridge (Deardon Moss)	... D. E. Strachan, Esq., C.E.	5	1 0	1500	...	62·85	...	...
D	Dunford Bridge (Stoney Gate)	... D. E. Strachan, Esq., C.E.	5	1 0	1086	...	51·49	226	184
	§Dunford Bridge (End Springs)	... D. E. Strachan, Esq., C.E.	5	1 0	1450	...	61·20	...	...
D	§Dunford Bridge Res.	... D. E. Strachan, Esq., C.E.	5	1 0	1081	...	55·11	232	183
	Dunford Bridge (Grains Plantations)	D. E. Strachan, Esq., C.E.	5	1 0	1150	...	52·40	...	...
	§Dunford Bridge (Swiner Clough Moss)	D. E. Strachan, Esq., C.E.	5	1 0	1503	...	61·95	...	...
d	Wombwell (Broomhill W.W.)	... Dearne Valley Water Bd. ...	5	1 6	75	...	21·46	...	...
D	§Dunford Bridge (Harden) ...	... D. E. Strachan, Esq., C.E.	5	1 0	1204	...	53·31	233	184
	§Dunford Bridge (Reaps Slack)	... D. E. Strachan, Esq., C.E.	5	1 0	1490	...	60·35	...	...
D	Barnsley (Worsborough Bridge)	... Engineer and Surveyor ...	5	1 6	150	...	25·46	174	118
D	Darfield (Sewage Works) ...	... Surveyor	5	1 0	83	...	23·10	155	113
D	§Penistone (Royd Moor) ...	... W. G. Lees, Esq., C.E. ...	5	1 0	835	...	35·01	209	145
M	Penistone (Gringley Carr) ...	... W. G. Lees, Esq., C.E. ...	5	1 0	1090	...	40·95	...	...
D	Penistone (Ingbirchworth Res.)	... W. G. Lees, Esq., C.E. ...	5	1 6	853	38·0	33·90	205	135
	Penistone (Spicer House) ...	... W. G. Lees, Esq., C.E. ...	5	1 0	985	...	36·45	...	...
D	§Penistone (Broadstone Res.) ...	... W. G. Lees, Esq., C.E. ...	5	1 0	1030	...	41·28	224	167
W	Hepworth (Pottersgate Ho.) ...	... W. G. Lees, Esq., C.E. ...	5	1 0	1047	...	39·65	...	...
D	Doncaster (Bentley Works) ...	... Research Engineer	5	1 0	285	...	23·23	168	112
D	Barnsley (Jordan Hill)	... W. G. Lees, Esq., C.E. ...	5	1 0	460	26·2	24·48	181	118
D	Doncaster (Sandall Works) ...	... W. H. Price, Esq., C.E. ...	5	1 0	41	...	20·66	169	110
D	Bentley Colliery...	... National Coal Board ...	5	1 0	23	...	20·60	163	101
d	Cawthorne (Cannon Hall) ...	... J. M. Spencer Stanhope, Esq.	5	0 7	350	29·1	26·46	...	...
D	Barnsley (Burntwood Hall) ...	... R. Dymond, Esq.	5	1 0	378	25·9	24·94	169	121
D	Kirk Bramwith	... C. E. Farran, Esq., C.E. ...	5	2 6	22	23·2	18·82	163	109
D	Hemsworth (Fitzwilliam) ...	... General Manager	5	1 6	246	...	20·67	166	108
D	Rawcliffe (Black Drain P.S.) ...	... G. H. Simmons, Esq. ...	5	0 10	12	...	19·04	155	110
D	Goole	... Docks & Inland Waterways	5	1 0	18	22·9	22·56	186	121
	8.—OUSE. Aire. Calder. 361 sq. mi.								
D	Great Hey	... H. P. Joyce, Esq., C.E. ...	5	1 0	1200	...	67·50	224	185
D	Hey Springs	... H. P. Joyce, Esq., C.E. ...	5	1 0	1100	...	64·76	224	185
D	Holmbridge (Yateholme) ...	... H. P. Joyce, Esq., C.E. ...	5	1 0	1009	59·2	60·29	224	185
D	Holmbridge (Ramsden) ...	... H. P. Joyce, Esq., C.E. ...	5	1 0	861	56·4	57·44	224	185
	Holmbridge (Bilberry Res.) ...	... J. P. Beveridge, Esq., C.E.	5	1 0	970	...	51·79	...	...
d	Holmfirth (Holme Styes Res.)	... Water Engineer	5	2 0	925	45·7	42·27	...	...
	Holmfirth (Boshaw Whams Res.)	... J. P. Beveridge, Esq., C.E....	5	1 0	930	...	41·72	...	...
	§Hepworth (Spring Head) (A)	... W. G. Lees, Esq.	5	1 0	1165	...	37·15	...	...
d	Holmfirth (Snape Res.) ...	... Water Engineer	5	2 0	1075	...	42·93	...	...
	Meltham (Harden Moss) ...	... J. P. Beveridge, Esq., C.E.	8	1 0	1212	...	51·39	...	...
	Wessenden Head	... J. P. Beveridge, Esq., C.E.	8	1 0	1270	...	53·17	...	...
	Wessenden (Holly Bank Moss)	... J. P. Beveridge, Esq., C.E.	8	1 0	1280	...	54·38	...	...
	Wessenden (Old Reservoir) ...	... J. P. Beveridge, Esq., C.E.	8	1 0	940	...	52·19	...	...
M	Standedge (Redbrook Res.) ...	... Docks & Inland Waterways	5	1 0	1150	...	53·54	...	...
	Wessenden (Butterley Moss) ...	... J. P. Beveridge, Esq., C.E.	8	1 0	1110	...	51·79	...	...
	Meltham (Brow Grains) ...	... J. P. Beveridge, Esq., C.E.	8	1 0	900	45·0	48·52	224	177
d	Meltham (Royd Edge) ...	... United Thread Mills, Ltd.	8	1 3	585	48·3	49·71	...	...
	*Marsden Reservoir	... Docks & Inland Waterways	5	1 0	657	50·5	55·02	...	...
	Marsden (Deer Hill)	... J. P. Beveridge, Esq., C.E.	8	1 0	1149	45·0	51·11	235	188
D	Slaithwaite (Blackmoorfoot) ...	... J. P. Beveridge, Esq., C.E.	8	1 0	800	43·1	40·27	221	174
	Slaithwaite (Deanhead Res.) ...	... J. P. Beveridge, Esq., C.E.	5	1 0	1007	...	50·26	218	190
D	Huddersfield (Ravens Knowle)	... The Corporation	8	1 0	325	...	26·99	189	130
D	HUDDERSFIELD (OAKES) ...	... S. Morris Bower, Esq. ...	5	1 0	761	34·9	33·26	211	150
W	Moss Moor (Linsgreave) ...	... Wakefield Corpn. W.W. ...	5	1 0	1264	52·3	51·70	...	...
D	Rishworth (Great Walden Edge)	... Wakefield Corpn. W.W. ...	5	1 0	1135	49·3	50·76	246	199

§ Turf wall round gauge. * Gauge on a steep bank.

DIVISION IX—YORKSHIRE—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	WEST RIDING—(*contd.*).			*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	8.—OUSE. Aire. Calder—(*contd.*).									
W	Rishworth (Long Clough)	... ...	Wakefield Corpn. W.W. ...	5	1 0	1000	52·8	53·48	...	...
W	Rishworth (Stott Hall)	... ...	Wakefield Corpn. W.W. ...	5	1 0	935	46·8	49·08	...	...
D	§Rishworth Lodge	... ...	Wakefield Corpn. W.W. ...	5	0 11	950	...	46·75	229	177
D	Rishworth (Green Withens Res.)	...	Wakefield Corpn. W.W. ...	5	1 0	1205	48·2	49·80	234	195
W	Rishworth (Pike End)	... ...	Wakefield Corpn. W.W. ...	5	1 0	1225	48·3	47·92	...	...
D	Rishworth (Ringstone Res.) (*lower*)		Wakefield Corpn. W.W. ...	5	1 0	962	46·9	46·52	222	167
W	Soyland Moor (Greystones)	... ...	Wakefield Corpn. W.W. ...	5	1 4	1192	52·6	52·01	...	...
W	Soyland Moor (Summit) (East)	...	Wakefield Corpn. W.W. ...	5	0 11	1218	52·9	49·29	...	...
D	Soyland Moor (Stansfield Hey)	...	Wakefield Corpn. W.W. ...	5	1 0	700	43·3	41·36	212	163
W	Soyland Moor (Baitings)	... ...	Wakefield Corpn. W.W. ...	5	1 0	943	51·4	47·79	...	...
D	Soyland Moor (Byron Edge)	... ...	C. Busfield, Esq.	8	1 0	1251	48·3	53·50	238	184
W	Soyland Moor (Manshead)	... ...	Wakefield Corpn. W.W. ...	5	1 0	1225	51·6	49·97	...	...
D	Walsden (White Holme)	... ...	C. Busfield, Esq.	8	1 0	1240	...	48·67	238	179
D	Walsden (Calf Lee)	... ...	Rochdale Corporation ...	8	1 0	960	...	46·06	229	181
D	Walsden (Warland Res.)	... ...	Rochdale Corporation ...	8	1 0	1245	48·6	45·93	228	188
D	Walsden (Warland Drain)	... ...	Rochdale Corporation ...	8	1 0	1250	51·9	53·84	228	201
D	Wakefield (Sewage Works)	... ...	J. H. Garner, Esq., B.Sc. ...	5	1 0	80	...	21·90	182	118
D	WAKEFIELD (Clarence Park)	... ...	Corporation	5	1 0	115	25·4	23·17	201	121
D	Normanton (Haw Hill Park)	... ...	Surveyor U.D.C.	8	1 1	136	23·3	20·85	190	108
D	Walsden (Ramsden Reservoir)	...	Rochdale Corporation ...	5	1 0	993	52·7	52·78	226	185
D	Todmorden (Gorpley Res.)	... ...	Borough Engineer	5	1 3	900	...	54·72	231	188
D	Todmorden (Fielden Hospital)	...	L. A. Crabtree, Esq. ...	5	1 0	650	...	51·39	237	183
D	Todmorden (Lower Laith)	... ...	D. A. Lord, Esq., F.R.Met.S.	5	1 0	500	...	52·16	236	181
D	Todmorden (Sourhall Hospital)	...	L. A. Crabtree, Esq. ...	5	1 0	1020	53·8	55·71	242	196
d	Halifax (Public Library)	... ...	Librarian	8	1 0	625	34·3	30·73	...	...
D	*Dewsbury (Mitchell Laithes Sew. Wks.)		Manager	8	1 0	115	...	23·01	183	122
D	Dewsbury (Municipal Offices)	(+A)	Borough Engineer	5	1 6	225	...	22·97	172	119
D	Dewsbury (Crow Nest Park)	...	Superintendent of Parks ...	8	1 0	256	...	27·24	198	149
D	Heckmondwike (The Bottoms)	...	Spenborough U.D.C. ...	5	1 0	165	...	23·97	183	124
D	Batley (Staincliffe Reservoir)	... ...	H. P. Joyce, Esq., C.E. ...	5	1 0	492	25·3	24·89	196	137
D	Ardsley (Jaw Hill Filters)	... ...	Wakefield Corpn. W.W. ...	5	1 0	315	25·8	23·41	178	128
D	Ardsley Reservoir Upper	... ...	Wakefield Corpn. W.W. ...	5	1 2	395	25·4	23·27	191	126
D	Halifax W.W. (Albert Res.)	... ...	H. F. Lea, Esq., C.E. ...	5	1 0	795	35·3	35·45	208	158
D	Halifax W.W. (Gibbet Res.)	... ...	H. F. Lea, Esq., C.E. ...	5	1 0	565	34·6	33·41	208	155
D	Todmorden (Eastwood Sew. Wks.)	...	Manager	5	1 0	368	...	48·04	216	178
D	Mytholmroyd (Redacre)	... ...	C. H. Brock, Esq.	5	1 0	315	...	42·10	216	154
D	Halifax W.W. (Ramsden Wood)	...	H. F. Lea, Esq., C.E. ...	5	1 0	815	38·3	40·41	210	170
W	§Halifax W.W. (Gorple Res.) No. 2		H. F. Lea, Esq., C.E. ...	5	1 0	1275	...	56·03	...	...
W	Halifax W.W. (Midgley Moor)	...	H. F. Lea, Esq., C.E. ...	8	1 0	1350	44·3	43·66	...	...
W	§Halifax W.W. (Gorple Res.) No. 3		H. F. Lea, Esq., C.E. ...	5	1 0	1160	...	50·28	...	...
W	Halifax W.W. (Warley Moor)	...	H. F. Lea, Esq., C.E. ...	8	1 0	1325	43·0	46·67	...	...
D	Halifax W.W. (Ogden)	... ...	H. F. Lea, Esq., C.E. ...	5	1 0	990	43·5	39·87	210	171
W	Halifax W.W. (Ovenden Moor)	...	H. F. Lea, Esq., C.E. ...	8	1 0	1375	41·8	45·59	...	...
D	§Halifax W.W. (Gorple Res.)	... ...	H. F. Lea, Esq., C.E. ...	5	1 0	1028	...	50·60	231	183
W	Halifax W.W. (Widdop Res.) No. 4		H. F. Lea, Esq., C.E. ...	5	1 0	1060	...	51·89	...	...
D	§Halifax W.W. (Widdop Res.) No. 2		H. F. Lea, Esq., C.E. ...	5	1 0	1065	...	51·74	237	196
W	§Halifax W.W. (Widdop Res.) No. 3		H. F. Lea, Esq., C.E. ...	5	1 0	1060	...	47·95	...	...
D	§Halifax W.W. (Walshaw Dean L.)	...	H. F. Lea, Esq., C.E. ...	5	1 0	1040	48·1	48·32	223	187
W	§Halifax W.W. (Walshaw Dean) No. 3		H. F. Lea, Esq., C.E. ...	5	1 0	1180	...	49·63	...	...
W	Halifax W.W. (Widdup Res.) No. 5		H. F. Lea, Esq., C.E. ...	5	1 0	1280	...	51·59	...	...
	9.—OUSE. Aire. 504 sq. mi.									
D	PONTEFRACT (The King's School)	...	Headmaster	5	1 0	255	23·3	22·02	188	122
D	Pontefract (Roall W.W.)	... ...	A. F. Richmond, Esq., C.E.	8	1 0	42	23·0	23·62	167	125
D	Goole (Sewage Pumping Stn.)	...	Borough Engineer	5	1 0	10	...	21·53	161	117

* Exposure unorthodox. § Turf wall round gauge.

DIVISION IX—YORKSHIRE—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	WEST RIDING—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	9.—OUSE. Aire—(*contd.*).								
D	Rothwell (Lemonroyd Sew. Wks.)	Rothwell U.D.C.	5	1	0 64	...	21·64	195	117
D	Selby (Brayton Barff Water Works)	Waterworks Engineer	8	1	0 173	...	23·00	163	114
	Bradford (Brayshaw Reservoir)	Waterworks Engineer	5	1	0 982	36·5	35·07	...	...
D	Bradford (Bowling Cemetery)	City Surveyor	5	1	0 600	...	31·17	206	153
D	Bradford (Horton Park)	City Surveyor	5	1	0 597	...	31·79	181	142
D	Bradford (Waverley Terrace)	J. C. Crossley, Esq.	5	5	0 495	...	28·87	189	129
D	Bradford (Thornton Grammar School)	City Surveyor	5	1	0 580	...	31·29	195	140
D	Bradford (Thornton Cemetery)	City Surveyor	5	1	0 1003	...	32·85	200	144
D	Bradford (Peel Park)	City Surveyor	5	1	0 450	...	29·67	194	127
D	BRADFORD (Lister Park)	Corporation	8	1	0 439	33·9	30·05	203	132
D	Bradford (Thornton Moor Filters)	Waterworks Engineer	5	1	0 1190	44·3	46·89	245	187
D	Bradford (Stubden Res.) No. 8	Waterworks Engineer	5	1	0 1071	44·9	49·92	221	181
M	Bradford (Nan Scar, Oxenhope)	Waterworks Engineer	5	1	0 1101	...	51·32	...	...
M	Bradford (Stairs Top, Oxenhope)	Waterworks Engineer	5	1	0 1360	52·4	50·02	...	...
D	Bradford (Leeming Reservoir)	Waterworks Engineer	5	1	0 850	...	44·20	219	175
D	Bradford (Doe Park Reservoir)	Waterworks Engineer	5	1	0 754	...	38·87	217	157
D	Bradford (Leeshaw Res.)	Waterworks Engineer	5	1	0 850	47·3	47·42	229	180
	Bradford (Chellow Dean Res.)	Waterworks Engineer	5	1	0 645	34·5	31·23	...	...
D	Bradford (Chellow Heights Res.)	Waterworks Engineer	5	1	0 848	...	31·31	200	143
D	Bradford (Hewenden Reservoir)	Waterworks Engineer	5	1	0 677	...	38·77	220	157
D	Bradford (Heaton Reservoir)	Waterworks Engineer	5	1	0 531	...	29·21	185	129
	Leeds (Wortley Reservoir)	K. L. Forster, Esq., C.E.	8	0	9 307	28·1	25·38	182	139
	Leeds (Knostrop)	K. L. Forster, Esq., C.E.	5	0	9 75	24·0	22·81	177	117
	Leeds (Woodhouse Moor)	K. L. Forster, Esq., C.E.	8	0	9 307	26·7	23·94	176	133
D	Seacroft (Leeds City Hospital)	Medical Superintendent	8	1	0 235	29·3	26·06	181	123
D	Leeds (Chapel Allerton)	E. J. Tibbs, Esq.	5	1	0 425	...	25·36	181	129
	Leeds (Weetwood Res.)	K. L. Forster, Esq., C.E.	8	1	0 300	27·5	24·71	208	123
D	Haworth (Harbour Lodge)	G. E. V. Boldry, Esq., C.E.	8	1	0 1165	52·5	48·78	210	179
D	Haworth (Lower Laithe Res.) (+A)	G. E. V. Boldry, Esq., C.E.	6	1	0 772	48·1	46·36	231	171
D	§Oakworth (Oldfield Filters) No. 2	G. E. V. Boldry, Esq., C.E.	5	1	0 978	...	45·23	222	175
	§Oakworth (Keighley Moor)	G. E. V. Boldry, Esq., C.E.	5	1	0 1300	...	47·47	...	...
	§Oakworth (Clough Hey)	G. E. V. Boldry, Esq,. C.E.	5	1	0 1075	...	46·50	...	...
W	Oakworth (Newsholme Dean)	G. E. V. Boldry, Esq., C.E.	5	1	0 675	...	42·37	...	...
	§Oakworth (Keighley Moor) No. 2	G. E. V. Boldry, Esq., C.E.	5	1	0 1025	...	48·64	...	...
D	Rawdon (Sewage Works)	Aireborough U.D.C.	8	1	9 150	...	25·35	179	123
D	Rawdon (Micklefield House)	Aireborough U.D.C.	5	1	0 579	29·0	25·46	176	121
D	BINGLEY (St. Ives Research Stn.)	Director	8	1	0 610	...	29·58	196	140
D	§Bingley (Gilstead Filters)	Engineer, Bradford W.W.	5	1	0 572	...	30·78	205	143
D	Adel (Lawns Wood Cemetery)	W. R. Pearson, Esq.	5	1	1 470	...	26·82	190	133
D	Keighley (The Knowle)	P. Clough, Esq.	5	1	0 390	...	31·93	196	153
D	Keighley (Hard Ings Lane)	Medical Officer of Health	5	0	10 304	35·7	32·00	201	155
	Bingley (Sunnydale Reservoir)	Engineer, Bradford W.W.	5	1	0 825	33·1	29·24	...	...
d	Guiseley (Moor Top)	Aireborough U.D.C.	8	1	6 750	...	26·20	172	136
d	Salterforth (Barnoldswick W.W.)	Barnoldswick U.D.C.	8	1	4 832	46·6	51·44	...	...
D	Earby (Sewage Works) (+A)	Surveyor	5	1	9 426	39·3	41·86	211	165
M	Silsden (Gill Grange)	Engineer, Bradford W.W.	5	1	0 883	30·8	30·72	...	...
D	Silsden Reservoir	Engineer, Bradford W.W.	5	1	0 560	...	31·94	213	154
M	Silsden (Cringles Res. Site)	Engineer, Bradford W.W.	5	1	0 715	31·3	30·90	...	...
D	Elslack (Stories Farm)	Barnoldswick U.D.C.	5	0	7 675	...	42·32	236	177
D	Skipton (Town Hall) (+A)	K. B. Robinson, Esq.	8	1	10 367	33·5	34·40	219	154
	Gargrave (Ray Bridge Hill)	Docks & Inland Waterways	8	0	10 459	34·2	39·27	...	...
	Winterburn (Long Hill)	Docks & Inland Waterways	8	1	0 705	37·8	39·93	...	...
	10.—OUSE. Wharfe. 408 sq. mi.								
D	Tadcaster (CHURCH FENTON) (+A)	Meteorological Office	8	1	0 27	...	22·44	167	115
	Adel (Eccup, East)	K. L. Forster, Esq., C.E.	5	0	9 375	29·3	26·98	198	137

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·01 in. or more
	WEST RIDING—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	10.—OUSE. Wharfe—(*contd.*).								
	Harewood (Arthington)	K. L. Forster, Esq., C.E.	8	0 9	139	32·0	28·72	189	134
D	Harewood House	The Earl of Harewood	5	0 10	300	29·7	27·61	167	130
D	Otley (Sewage Works)	J. A. A. Pratt, Esq.	5	1 0	172	...	26·71	163	123
D	ILKLEY (Spence's Garden)	Engineer & Surveyor	5	1 0	315	35·1	23·97	209	150
D	ASKHAM BRYAN (Exptl. Farm)	University of Leeds	5	1 0	90	...	21·98	170	113
	Leathley (Lindley Wood S.)	K. L. Forster, Esq., C.E.	8	0 9	312	31·6	29·67	207	141
D	Ilkley (March Ghyll Reservoir)	J. A. A. Pratt, Esq.	5	0 6	655	34·0	34·77	186	155
D	York (Bishopthorpe Road)	J. Terry & Sons, Ltd.	5	1 0	51	...	21·16	156	101
D	York (Acomb Landing)	York W.W. Co.	5	1 0	40	22·6	23·68	171	123
M	Skipton (Counter Hill)	Engineer, Bradford W.W.	5	1 0	951	30·2	30·08	...	...
D	Skipton (Chelker Reservoir)	Engineer, Bradford W.W.	5	1 0	730	32·9	31·58	214	170
D	Beamsley (Overdale)	A. Downs, Esq.	5	1 0	425	...	32·69	201	156
	Fewston (Timble Ings)	K. L. Forster, Esq., C.E.	5	0 9	912	35·5	39·89	219	165
	Fewston (Swinsty, East)	K. L. Forster, Esq., C.E.	8	0 9	460	34·4	32·04	205	136
	Fewston, North	K. L. Forster, Esq., C.E.	8	0 9	525	...	34·85	228	154
	Fewston (Blubberhouses)	K. L. Forster, Esq., C.E.	8	0 9	575	37·1	36·86	206	156
D	Bolton Abbey Estate Office	E. E. Hey, Esq.	5	1 2	368	36·3	33·91	211	150
D	§Barden Reservoir	Engineer, Bradford W.W.	5	1 0	746	41·8	40·30	223	175
M	Upper Barden Reservoir	Engineer, Bradford W.W.	5	1 0	1164	...	41·97	...	...
	Rocking Moor (Spittle Ings)	K. L. Forster, Esq., C.E.	5	... ...	967	...	42·53	226	165
	Thruscross (Lane Head)	K. L. Forster, Esq., C.E.	8	0 9	950	...	39·97	172	157
	§Burnsall (Thorpe Fell)	Engineer, Bradford W.W.	5	1 0	1661	...	41·73	...	...
	Burnsall (Sandbed Beck)	Engineer, Bradford W.W.	5	1 0	676	41·0	40·43	...	...
	Braithwaite Moor (High House)	K. L. Forster, Esq., C.E.	5	... ...	1068	...	41·92	214	163
d	Threshfield (Far Croft)	Mrs. D. Sampson	5	1 0	650	...	42·57	...	...
D	Grimwith Reservoir	Engineer, Bradford W.W.	5	1 0	884	43·9	43·43	213	176
M	Grimwith (Trunla Hill)	Engineer, Bradford W.W.	5	1 0	1201	...	45·53	...	...
D	Oughtershaw Hall	Mr. T. White	5	1 6	1175	...	71·68	244	203
	11.—OUSE. Nidd. 254 sq. mi.								
d	Wetherby (Stockheld Park)	C. E. Johnson, Esq.	5	1 2	200	25·8	23·91	...	...
	Spofforth (Sewage Works)	Borough Corporation	5	1 0	181	27·0	27·21	204	127
M	Harrogate W.W. (Ling Cottage)	Water Engineer, Harrogate	5	1 0	740	33·4	32·45	...	...
M	Harrogate W.W. (Broad Dubb)	Water Engineer, Harrogate	5	1 0	725	34·1	31·15	...	...
M	Harrogate W.W. (Cobblers Cottage)	Water Engineer, Harrogate	8	1 0	730	33·5	32·90	...	...
D	Harrogate W.W. (Ten Acres Res.)	Water Engineer, Harrogate	8	1 6	620	34·9	34·79	223	163
D	Harrogate W.W. (Scargill Res.)	Water Engineer, Harrogate	8	1 0	646	34·8	33·28	220	150
D	Harrogate W.W. (Beaver Dyke R.)	Water Engineer, Harrogate	8	0 11	575	34·1	31·37	217	148
	§Harrogate W.W. (Long Stoop)	Water Engineer, Harrogate	5	1 0	700	33·8	34·12	...	...
M	Harrogate W.W. (Knab's Moor)	Water Engineer, Harrogate	5	1 0	700	32·5	32·65	...	...
D	HARROGATE (Harlow Moor Obsy.)	Borough Corporation	5	1 0	478	30·6	29·59	195	135
D	Harrogate (Harlow Hill Res.)	Water Engineer, Harrogate	8	1 0	549	...	30·78	209	147
	Harrogate (Bilton Sewage Works)	Borough Corporation	5	1 0	208	28·5	29·43	168	143
D	Birstwith Hall	Sir Frederick A. Ackroyd, Bt.	5	1 0	325	34·4	37·27	189	152
D	Pateley Bridge (Low Laithe)	A. Y. Barker, Esq.	5	1 6	380	...	36·32	193	153
D	Ramsgill (Raygill House)	Engineer, Bradford, W.W.	5	1 0	925	46·7	49·91	197	176
D	Ramsgill	Engineer, Bradford, W.W.	5	1 0	450	42·1	45·30	210	175
M	Nidderdale (Rain Stang)	Engineer, Bradford, W.W.	5	1 0	1470	47·4	49·30	...	...
M	Nidderdale (New Houses)	Engineer, Bradford, W.W.	5	1 0	755	45·8	44·39	...	...
D	Nidderdale (West Houses)	Engineer, Bradford, W.W.	5	1 0	1165	52·5	62·31	225	189
D	Scar House Reservoir	Engineer, Bradford, W.W.	5	1 0	1085	...	52·35	220	171
	12.—OUSE. Ure. 110 sq. mi.								
D	Burton Leonard	B. Coore, Esq.	5	1 0	290	...	25·69	189	130
	Pately Bridge (Skell Beck)	Water Engineer	5	1 0	900	...	35·97	...	...
D	Ripon (Wynhaven)	J. H. Abbott, Esq.	5	1 0	164	...	25·53	173	125

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	WEST RIDING—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	12.—OUSE. Ure.—(*contd.*).								
	Dallow Moor (Harper Hill)	K. L. Forster, Esq., C.E.	8	0 9	819	...	34·24	155	141
D	Ripon (Grammar School)	Headmaster	5	1 0	150	...	26·06	173	125
	Kirkby Malzeard (Drovers' Inn)	K. L. Forster, Esq., C.E.	8	0 9	576	36·0	35·84	200	150
	Kirkby Malzeard (Hawsett)	K. L. Forster, Esq., C.E.	5	0 9	820	37·1	34·45	170	137
W	Kirkby Malzeard (Hambleton Hill)	K. L. Forster, Esq., C.E.	8	0 9	1106	39·7	37·32	...	...
d	Kirkby Malzeard (Arundo)	F. Scrivener, Esq.	5	1 0	450	...	28·67	...	...
	Kirkby Malzeard (Bagwith Brae)	K. L. Forster, Esq., C.E.	5	0 9	703	32·9	33·68	161	141
W	Kirkby M. (Stone & Ears Wham)	K. L. Forster, Esq., C.E.	8	0 9	1118	39·7	36·83	...	...
	EAST RIDING. (Area, 1,176 sq. mi.)								
	1.—OUSE. Left Bank Tributaries. 82 sq. mi.								
D	York (The Retreat)	The Secretary	5	1 0	60	...	24·34	180	122
D	York (Dunnington Hall)	Miss E. C. Hildyard	8	1 2	110	24·6	26·99	209	118
	2.—OUSE. Derwent. 248 sq. mi.								
D	Birdsall Gardens	Mr. J. Anderson	5	1 2	308	29·2	29·34	164	119
D	Ganton (Golf Club)	Secretary	5	1 2	100	...	25·65	161	113
D	Ganton (Ganton Hall)	E. W. Wrigley, Esq.	5	1 0	250	27·5	26·51	151	107
	3.—HUMBER. Left Bank Tributaries. 675 sq. mi.								
D	§SPURN HEAD (R.N. SIGNAL STN.)	Chief Officer (M.O.)	5	1 0	29	22·7	22·26	140	109
D	Patrington (Station Road)	A. Moser, Esq.	5	1 3	46	23·3	22·97	143	111
D	Hessle (Westfield Rise)	Lieut. C. S. Sherwood	5	1 0	90	...	26·01	190	122
D	HULL (Pearson Park)	Gen. Superintendent	5	0 10	8	25·4	24·64	162	109
D	Hull (Springhead)	Hull Waterworks	5	1 0	14	25·5	24·82	160	118
D	Cottingham (Dunswell P.S.)	Hull Waterworks	5	1 0	6	...	24·47	159	107
D	Holme-on-Spalding Moor	Rev. W. L. Shepherd	8	1 0	30	25·9	22·94	171	114
D	Beverley (E. Riding Mental Hosp.)	Medical Superintendent	5	1 0	175	26·5	26·42	158	111
D	Beverley (Gas Works)	Engineer	5	1 0	21	...	27·21	159	118
D	Beverley (Hull Bridge)	R. Hull Catchment Bd.	5	2 6	11	24·9	28·40	172	138
D	Market Weighton (Dalton Holme)	W. F. Cullen, Esq.	8	6 6	120	27·3	28·92	166	134
D	Brandesburton (Hempholme Lock)	R. Hull Catchment Bd.	5	2 6	11	24·6	27·38	160	118
D	Hutton Cranswick (The Vicarage)	Rev. G. Storer	5	1 0	79	...	26·30	163	109
D	Driffield (Council School)	Headmaster	5	1 9	69	27·2	24·44	150	102
D	DRIFFIELD	Meteorological Office	5	1 0	69	...	23·51	169	109
D	Lowthorpe (The Elms)	J. Tate, Esq.	5	1 0	63	26·5	25·56	149	106
D	Langtoft School	G. W. E. Ogden, Esq.	5	1 0	250	...	26·97	153	107
	4.—EAST COAST STREAMS. 171 sq. mi.								
D	Hornsea (Town Hall)	Hornsea U.D.C.	5	1 0	12	...	25·42	158	110
D	Bridlington (Corpn. Nurseries)	Parks Superintendent	8	1 0	60	25·6	26·76	190	116
D	Weaverthorpe (The School House)	H. Wilkinson, Esq.	5	1 0	270	...	29·98	170	105
M	Ganton (Willerby Wold)	Major W. F. Wormald	5	1 2	565	...	25·57	...	...
D	Filey (Pumping Station)	Filey U.D.C.	5	1 0	123	...	21·83	155	104
	NORTH RIDING. (Area, 2,155 sq. mi.).								
	1.—OUSE. Ure. 273 sq. mi.								
M	Masham Moor (Arnagill Beck W.)	Water Engineer, Harrogate	5	1 0	1210	41·6	41·59	...	...
M	Masham Moor (Arnagill Beck E.)	Water Engineer, Harrogate	5	1 0	1150	39·5	36·79	...	...
	Masham Moor (Grey Ridge)	Water Engineer, Harrogate	5	1 0	1330	44·3	37·09	...	...
M	Masham Moor (Low Ash Head)	Water Engineer, Harrogate	5	1 0	845	40·7	41·03	...	...

§ Turf wall round gauge.

DIVISION IX—YORKSHIRE—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	NORTH RIDING—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	1.—OUSE. Ure.—(*contd.*)								
M	Masham Moor (Agill Head) ...	... Water Engineer, Harrogate	5	1 0	1380	43·4	40·81	...	...
D	West Tanfield Rectory ...	... Rev. F. A. Trotter	5	1 0	150	28·7	27·44	187	132
D	Masham Moor (Roundhill Res.)	... Water Engineer, Harrogate	8	1 0	743	37·6	35·63	207	153
D	Roundhill Reservoir No. 2 ...	... Water Engineer, Harrogate	8	1 0	928	38·8	35·93	216	154
W	Masham Moor (High Sour Mire)	... K. L. Forster, Esq., C.E. ...	5	0 9	884	...	36·04	...	...
	Masham Moor (Leighton Res.)	... K. L. Forster, Esq., C.E. ...	5	0 9	634	35·9	34·85	204	142
	Masham Moor (Towler Hill) ...	... K. L. Forster, Esq., C.E. ...	8	0 9	820	36·7	37·76	207	150
	Masham Moor (Healey Pasture)	... K. L. Forster, Esq., C.E. ...	5	0 9	620	36·1	36·14	207	144
	Masham Moor (Low Houses)	... K. L. Forster, Esq., C.E. ...	5	0 9	693	37·9	37·81	171	139
D	West Burton (Flanders Hall) ...	... G. T. Whitehead, Esq. ...	5	1 6	485	...	40·49	206	161
D	Leyburn (Spennithorne) ...	... F. M. Curtis, Esq., F.R.Met.S.	5	1 0	358	...	30·66	195	138
D	Leyburn (Bolton Hall) ...	... The Head Gardener ...	5	1 0	420	32·6	34·86	204	154
	Leyburn (Overdale)	... A. Rowntree, Esq.	5	1 0	550	...	28·81	180	130
D	Askrigg (Yorebridge Gram. School) ...	F. E. Chevins, Esq.... ...	5	1 0	670	...	42·85	192	157
D	Hawes Junction (Moorland Cottage)	Mr. W. Ireland	5	1 6	1125	...	79·41	230	211
	2.—OUSE. Swale. 569 sq. mi.								
d	Coxwold (The Old Hall)	L. Geipel, Esq.	5	1 6	260	26·1	29·21	...	...
D	Thirsk (Topcliffe)	Meteorological Office ...	5	1 0	81	...	25·10	172	121
d	Thirsk (Ashton House)	Mrs. F. E. Walker	5	1 6	112	...	25·78	177	123
D	Thirsk (Sowerby)	Mrs. M. Brown	5	1 0	110	24·7	26·33	163	126
D	Thirsk (South Villa)	B. Foggitt, Esq.	5	1 0	115	24·7	25·78	172	118
M	Felixkirk (Thirlby)	A. J. Walker, Esq.	5	1 0	338	27·1	26·56	...	...
D	Felixkirk (Mount St. John) ... (+A)	A. J. Walker, Esq.	5	1 0	540	26·5	26·75	186	124
M	Boltby, East	A. J. Walker, Esq. ...	5	1 0	459	26·2	29·98	...	...
D	LEEMING ... ... (+A)	Meteorological Office ...	8	1 0	175	...	26·00	175	117
d	Maunby Hall	Major A. Hill-Walker, V.C.	5	1 0	90	23·9	25·84	...	...
D	Scruton Hall	A. Coore, Esq.	5	1 0	100	23·8	26·64	171	125
D	Swaledale (Gunnerside Lodge)	... The Rt. Hon. Lord Peel ...	5	1 0	900	47·8	39·48	207	161
	Osmotherly (Oakdale W.W.) ...	... Northallerton U.D.C. ...	5	1 0	600	28·3	28·69	...	...
D	East Harlsey (Harlsey Hall) ...	... Mrs. Constantine	5	1 0	370	...	24·34	174	131
d	Richmond (C.E. School) ...	... R. Hornby, Esq.	5	1 0	420	...	32·67	...	...
	3.—OUSE. Left Bank Tributaries. 153 sq. mi.								
D	YORK (Museum)	Yorks. Phil. Soc. (Dr. W. L. Collinge) ...	5	1 0	57	24·3	23·55	177	123
	4.—OUSE. Derwent. 509 sq. mi.								
D	Welburn	R. Child, Esq.	5	1 0	200	26·1	26·71	177	127
D	Malton (Broughton Road) ...	... C. C. Laverack, Esq. ...	5	1 0	152	25·5	26·36	168	128
D	Hovingham Hall	Col. Sir W. A. Worsley, Bt.	5	0 9	119	29·0	23·80	159	116
D	AMPLEFORTH (ABBEY)	Rev. T. L. Jackson, O.S.B.	5	1 0	313	...	29·23	165	131
D	Oswaldkirk (Leyesthorpe Hall)	... Major G. B. Foster ...	5	1 0	231	...	29·91	169	118
D	Nunnington Hall Gdns. ...	... Head Gardener	5	1 0	110	...	26·02	142	114
D	Helmsley (Boys' School) ...	... J. McManners, Esq. ...	5	1 0	225	...	26·20	183	129
D	Seamer (Irton Pumping Station)	... H. V. Overfield, Esq., C.E.	5	1 0	94	28·7	25·47	179	112
D	Scarborough (Osgodby) ...	... H. V. Overfield, Esq., C.E.	5	1 0	166	26·1	22·19	160	103
D	East Ayton (Derwent House)	... A. H. Robinson, Esq. ...	5	1 4	110	27·0	27·12	186	123
D	Kirkby Moorside (Ravenswyke)	... Lt.-Col. V. H. Holt, M.C., J.P.	5	1 0	270	27·2	28·59	162	116
M	Bransdale 7	Hull Waterworks	5	1 0	1021	...	37·18	...	...
D	Farndale (The Vicarage) ...	... Hull Waterworks	8	1 0	495	...	38·18	170	138
M	Rosedale 16	Hull Waterworks	5	1 0	587	...	35·73	...	...
M	Rosedale 19	Hull Waterworks	5	1 0	599	...	36·64	...	...
M	Rosedale 17A	Hull Waterworks	5	1 0	986	...	36·54	...	...
M	Bransdale 3	Hull Waterworks	5	1 0	739	...	39·11	...	...
D	Bransdale 3B	Hull Waterworks	8	1 0	848	...	37·96	208	141
M	Bransdale 4B	Hull Waterworks	5	1 0	1184	...	39·33	...	...

DIVISION IX—YORKSHIRE—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	NORTH RIDING—(*contd.*).			*in.*	*ft.*	*ft.*	*in.*	*in.*		
	4—OUSE. Derwent.—(*contd.*).									
M	Farndale 9		Hull Waterworks	5	1	1015		41·98		
M	Farndale 10		Hull Waterworks	5	1	574		40·21		
M	Farndale 13		Hull Waterworks	5	1	1055		38·02		
M	Farndale 14		Hull Waterworks	5	1	1286		35·79		
M	Rosedale 18		Hull Waterworks	5	1	1337		37·00		
M	Rosedale 14A		Hull Waterworks	5	1	1329		40·06		
	5.—ESK & C. 278 sq. mi.									
D	SCARBOROUGH	(+A)	Medical Officer of Health	5	1	118	25·8	22·30	165	113
D	Scarborough (Scalby)		Capt. Sir William Wordsworth	5	1	210		24·22	166	120
D	Danby (Botton Hall)		W. E. F. Macmillan, Esq.	5	1	720		40·05	209	151
d	Egton Bridge (Bridgeholme)		Mrs. Astley Smith	5	1	130	33·3	30·89		
d	Sleights (The Hall)		P. M. Horsfall, Esq.	5	1	220	30·7	28·77		
D	Whitby (Park Hall, Aislaby)		Miss M. A. N. Richardson	5	1	500	30·7	28·91	164	114
D	WHITBY (Pannett Park)		Park Superintendent	8	6	130		22·05	163	116
D	Guisborough (Lockwood Res.)		Cleveland Water Co.	8	1	632	33·0	32·20	194	140
D	Guisborough (Grammar School)		J. H. Morgan, Esq.	5	1	330		24·21	168	117
d	Guisborough (Waterworks)		Guisborough Water Co., Ltd.	5	1	2 600		27·31	165	120
D	Saltburn (North Skelton Mine)		Messrs. Dorman, Long & Co.	5	1	304		28·12	174	122
D	REDCAR		Town Clerk	5	1	25	24·2	22·41	181	104
	6.—TEES. 373 sq. mi.									
	Ingleby Manor		Lord De L'Isle and Dudley	5	1	0 460		29·40?		
D	Kildale Hall		Mrs. R. B. Turton	5	1	2 600	35·5	34·64	206	138
D	Crathorne Hall Gardens		Maj. Sir Thomas Dugdale	5	1	3 185	25·0	22·22	157	122
D	Yarm (Worsall Hall)		Lt-Col. H. K. D. Evans	5	1	0 60		23·70	144	122
D	Nunthorpe (The Box)		G. D. Cochrane, Esq.	5	1	3 287	25·2	25·41	171	136
D	Middlesbrough (West Acklam)		H. C. White, Esq.	5	1	0 71		23·41	162	114
D	Middlesbrough (Albert Park)		H. C. Hildyard, Esq.	5	1	0 30	23·7	23·00	160	112
D	Middlesbrough (South Bank)		N. C. Harrison, Esq., C.E.	5	1	0 41		21·85	169	99
M	Baldersdale (Aygill)		T. S. R. Winter, Esq., C.E.	5	1	6 1250	49·5	55·50		
D	Lartington Filters		T. S. R. Winter, Esq., C.E.	5	1	0 725	32·1	33·03	215	140
M	Baldersdale (Blackton Res.)		T. S. R. Winter, Esq., C.E.	5	1	0 937	40·9	49·60		
M	Baldersdale (Balderhead)		T. S. R. Winter, Esq., C.E.	5	1	3 1360	45·7	55·30		
D	Baldersdale (Hury Res.) *old g. site*		T. S. R. Winter, Esq., C.E.	5	1	0 856	36·0	40·00	219	165
D	Baldersdale (Hury Res.) *new g. site*		T. S. R. Winter, Esq., C.E.	5	1	0 862	37·3	41·13	219	166
M	Lunedale (Dow Crag)		T. S. R. Winter, Esq., C.E.	5	1	0 1720	57·6	67·30		
M	Lunedale (Lunehead)		T. S. R. Winter, Esq., C.E.	5	1	0 1450	55·0	69·00		
M	Lunedale (Selset)		T. S. R. Winter, Esq., C.E.	5	1	0 924	40·3	46·00		
D	Lunedale (Grassholme Res.)		T. S. R. Winter, Esq., C.E.	5	1	0 936	38·6	44·43	216	175
M	Lunedale (Keekham)		T. S. R. Winter, Esq., C.E.	5	1	0 1660	62·1	73·80		
M	Lunedale (Hargill)		T. S. R. Winter, Esq., C.E.	5	1	5 1320	52·6	68·10		

DIVISION X—NORTHERN COUNTIES

DURHAM. (Area, 1,011 sq. mi.)

	1.—TEES & C. 396 sq. mi.									
D	Darlington (South Park)		T. J. Morrison, Esq.	5	1	0 150	27·1	26·50	182	120
D	Darlington Waterworks	(+A)	Borough Surveyor	5	1	0 161		28·12	162	118
D	Darlington (Broken Scar)		T. S. R. Winter, Esq., C.E.	5	1	0 158	26·2	29·92	168	124
D	Darlington (Fighting Cocks Res.)		T. S. R. Winter, Esq., C.E.	5	1	0 171	25·2	22·39	157	115
D	Egglescliffe		Walter Jones, Esq.	8	1	2 100	24·0	26·06	160	121
D	Barnard Castle (Bowes Museum)		T. Wake, Esq.	6	1	0 500	30·4	30·61	177	140
D	Barnard Castle (County School)		Bursar	5	1	5 550	29·1	28·35	166	124
D	Long Newton Reservoir		T. S. R. Winter, Esq., C.E.	5	0	9 184	25·5	25·84	169	125

DIVISION X—NORTHERN COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	DURHAM—(*contd.*).			*in.*	*ft. in.*	*t.*	*in.*	*in.*		
	1.—TEES & C.—(*contd.*).									
d	Stockton-on-Tees (Ropner Park)		Park Curator	5	0 10	61	22·9	24·05	...	101
D	Stockton-on-Tees (Billingham)	(+A)	Imperial Chem. Indust., Ltd.	5	1 6	35	23·3	23·94	181	106
D	Stillington Park		A. Kendall, Esq.	5	1 0	140	27·1	27·26	153	118
D	Eggleston (Wood Hill)		E. A. Smith, Esq.	5	1 0	1000	34·2	36·41	202	156
D	Middleton-in-Teesdale (Newbiggin)		B. Jackson, Esq.	5	1 0	1000	44·2	47·20	212	164
D	Forest-in-Teesdale	(+A)	Postmistress	11	1 10	1240	...	59·59	231	174
D	Embleton (Crookfoot Res.)		J. R. Bradshaw, Esq.	8	1 0	293	25·4	25·65	198	118
D	West Hartlepool (Waterworks)		J. R. Bradshaw, Esq.	10	1 0	35	24·7	24·33	180	108
D	Hurworth Burn Reservoir		J. R. Bradshaw, Esq.	8	1 0	357	26·5	28·37	183	123
D	Hartlepool (Hart Reservoir)		J. R. Bradshaw, Esq.	8	1 0	172	...	23·96	187	112
D	Shotton (New Winning P.S.)		A. B. E. Blackburn, Esq., C.E.	8	1 0	402	29·4	31·69	201	123
D	Easington (Mill Hill Res.)		A. B. E. Blackburn, Esq., C.E.	8	1 0	521	...	28·94	179	115
D	Seaham (Dalton Pumping Stn.)		A. B. E. Blackburn, Esq., C.E.	8	1 0	345	27·0	30·28	190	120
	2.—WEAR. 464 sq. mi.									
D	Wolsingham (Shull)		Mrs. W. A. Mounsey	5	1 0	600	...	34·86	197	150
d	Stanhope (Parson Byers Quarry)		Dorman, Long & Co., Ltd.	5	1 3	860	31·7	38·45	195	148
M	Burnhope (Grass Meres)		J. A. Rodwell, Esq., C.E.	5	1 3	1850	59·1	63·80	...	...
M	Burnhope (Lodgegill Mine)		J. A. Rodwell, Esq., C.E.	5	1 3	1950	61·4	66·40	...	...
D	Burnhope Reservoir		J. A. Rodwell, Esq., C.E.	8	1 0	1165	...	60·97	230	192
D	Durham (HOUGHALL Hort. Station)		Director of Agriculture	5	1 0	160	26·4	32·72	180	127
D	DURHAM (University Obsy.)	(+A)	Director	8	1 0	336	24·6	29·76	178	113
D	Weardale W.W. (Tunstall Res.)		J. A. Rodwell, Esq., C.E.	8	1 2	724	32·4	37·14	194	162
M	Weardale W.W. (Waskerley 6)		J. A. Rodwell, Esq., C.E.	8	1 0	1229	...	38·75	...	...
M	Weardale W.W. (Waskerley 3)		J. A. Rodwell, Esq., C.E.	8	1 0	1433	...	38·32	...	...
D	Weardale W.W. (Waskerley)		J. A. Rodwell, Esq., C.E.	8	1 0	1179	33·1	37·76	204	158
M	Weardale W.W. (Waskerley 1)		J. A. Rodwell, Esq., C.E.	8	1 0	1317	...	36·80	...	...
D	Lanchester (Malton Colliery)		National Coal Board	5	1 3	395	...	35·21	167	132
D	Lanchester (Craigmore)		Basil Sadler, Esq.	5	1 0	400	...	33·41	184	132
D	Consett (Crookhall Sewage Works)		T. Hutton, Esq.	5	1 0	700	...	32·37	189	136
D	Consett (Stockley House)		Mrs. J. Shackleton	5	1 6	642	...	32·34	175	128
D	South Moor (Colliery Office)		Basil Sadler, Esq.	5	1 0	616	...	33·76	152	129
D	Ryhope Pumping Station		A. B. E. Blackburn, Esq., C.E.	8	1 1	228	25·4	28·48	175	119
M	Washington (Glebe Mod. School)		A. Robson, Esq.	5	1 2	160	...	26·83	...	...
D	Sunderland (Mowbray Park)		Medical Officer of Health	5	1 0	105	25·6	28·30	150	106
	3.—TYNE. LOWER. 151 sq. mi.									
D	Hunstanworth (Presser Villa)		J. J. S. Wilkinson, Esq.	5	1 0	1500	...	40·86	220	161
D	Weardale W.W. (Hisehope Res.)		J. A. Rodwell, Esq., C.E.	5	1 0	1450	...	37·02	219	166
D	Weardale W.W. (Smiddy Shaw)		J. A. Rodwell, Esq., C.E.	8	1 3	1128	34·1	35·54	192	162
D	Westwood Sewage Works		T. Hutton, Esq.	5	0 8	255	...	33·85	204	144
D	BIRTLEY		Durham Chemicals, Ltd.	5	1 0	87	...	28·79	181	115
d	Ebchester (Blackhall Mill School)		Headmaster	5	0 6	180	...	28·91	189	126
D	Rowlands Gill (Chopwellwood)		Forestry Commission	8	1 0	446	28·7	30·81	189	130
D	Sunderland (Cleadon Pumping Stn.)		A. B. E. Blackburn, Esq., C.E.	8	1 0	216	24·4	27·98	206	119
D	South Shields (Bents Park)		Dr. W. Campbell Lyons	5	1 0	36	24·2	31·61	198	137
D	South Shields (South Pier Works)		Tyne Improvement Commis.	5	1 0	17	...	28·47	188	120
	NORTHUMBERLAND. (Area, 2,015 sq. mi.)									
	1.—EDEN. 20 sq. mi.									
	2.—SOUTH TYNE. 232 sq. mi.									
d	Allenheads		R. Hepple, Esq.	5	1 5	1350	...	54·20	243	195
D	Haydon Bridge (Shaftoe Trust Sch.)		Headmaster	5	0 9	240	...	30·92	208	154

DIVISION X—NORTHERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	NORTHUMBERLAND—(*contd*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	3.—TYNE. LOWER. 227 sq. mi.								
D	Newcastle (Leazes Park)	City Engineer	5	1	0 255	26·4	30·64	182	129
D	Newcastle (Gosforth)	T. R. Dowdeswell, Esq.	5	1	0 246	...	31·80	207	124
D	Throckley Filters	Newcastle & Gatesh'd W. Co.	5	1	1 300	...	29·01	192	141
D	Hexham (Ridgway-on-Yarridge)	R. W. Gregory, Esq.	5	1	1 650	...	30·76	199	132
D	Hexham Reservoir	Hexham U.D.C.	5	1	0 330	...	30·45	197	136
D	Hexham (Widehaugh Nursery)	Forestry Commission	5	0	11 120	...	28·20	175	130
D	Tynemouth (Tyne Pier Works)	Tyne Improvement Commis.	5	1	0 54	25·1	28·19	165	124
D	TYNEMOUTH (C.G. Station)	Station Officer (M.O.)	8	1	0 108	24·5	27·02	169	118
D	Whittle Dene Filters	Newcastle & Gatesh'd W. Co.	5	1	1 353	26·6	30·29	198	134
D	Whittle Dene Reservoir	Newcastle & Gatesh'd W. Co.	5	1	0 380	25·3	31·72	203	144
	4.—NORTH TYNE. 433 sq. mi.								
d	Barrasford	Newcastle & Gatesh'd W. Co.	8	1	0 207	...	32·57	225	154
M	Ryal Cottage	Newcastle & Gatesh'd W. Co.	5	0	9 463	29·1	29·66	...	...
M	Hallington Village	Newcastle & Gatesh'd W. Co.	5	1	0 467	29·9	30·69	...	...
D	Hallington Reservoir	Newcastle & Gatesh'd W. Co.	5	1	0 470	29·3	31·08	207	146
M	Hallington (Fawcett)	Newcastle & Gatesh'd W. Co.	5	1	2 537	28·2	31·69	...	...
M	Hallington (Cheviott)	Newcastle & Gatesh'd W. Co.	5	1	2 576	27·8	31·45	...	...
M	Camphill	Newcastle & Gatesh'd W. Co.	5	1	0 450	29·4	33·47	...	...
D	Colt Crag Reservoir	Newcastle & Gatesh'd W. Co.	5	1	0 654	*29·3*	36·35	225	182
D	Falstone (Hope House)	Northumberland Rivers C.B.	5	1	0 1027	30·4	52·36	218	176
M	Green Crag	Newcastle & Gatesh'd W. Co.	5	1	0 900	...	35·32	...	...
D	BELLINGHAM (Highgreen)	Sir Charles Morrison-Bell	5	1	0 849	35·4	40·36	227	160
D	Kielder (Viaduct Lodge)	Forestry Commission	5	1	7 610	...	54·87	191	166
D	§Kielder (Ridge End)	Newcastle & Gatesh'd W. Co.	5	1	0 851	...	54·71	232	187
D	§Kielder (Kielder Head)	Newcastle & Gatesh'd W. Co.	5	1	0 807	...	53·07	213	183
M	§Kielder (Oh Me Edge)	Newcastle & Gatesh'd W. Co.	8	1	0 1480	...	54·93	...	...
M	§Kielder (Carry Burn)	Newcastle & Gatesh'd W. Co.	5	1	0 1043	...	56·98	...	...
M	§Kielder (Little Gunn's Cleugh)	Newcastle & Gatesh'd W. Co.	8	1	0 1110	...	57·23	...	...
M	§Redewater (Countess Crag)	Newcastle & Gatesh'd W. Co.	5	1	0 1600	...	53·28	...	...
M	Redewater (Chattlehope)	Newcastle & Gatesh'd W. Co.	5	1	0 1100	...	56·93	...	...
D	Redewater (Catcleugh)	Newcastle & Gatesh'd W. Co.	5	1	0 819	...	48·09	236	176
W	§Redewater (Game Park)	Newcastle & Gatesh'd W. Co.	5	1	0 900	...	57·13	...	...
	§Redewater (Black Cleugh)	Newcastle & Gatesh'd W. Co.	5	1	0 1050	...	53·71	...	...
	5.—COQUET & C. 840 sq. mi.								
M	Whittington	Newcastle & Gatesh'd W. Co.	8	1	0 528	28·1	31·81	...	...
M	Burnside	Newcastle & Gatesh'd W. Co.	8	1	0 528	27·2	31·69	...	...
D	Whitley Bay (Marden House)	R. J. Oliver, Esq.	5	1	0 100	...	31·75	218	144
D	Kirkwhelpington	J. Wardle, Esq.	5	1	3 581	...	37·12	202	153
D	Morpeth (COCKLE PARK)	North'land County Council	5	1	0 325	28·7	31·96	211	137
D	Morpeth (Tritlington School)	J. E. Archbold, Esq.	5	0	8 250	...	33·80	201	131
D	Font Res. (Tynemouth W.W.)	C. F. J. Lisle, Esq.	10	1	2 620	31·1	37·56	210	162
d	Acklington (Broomhill Colliery)	Broomhill Coal Board	5	1	0 92	...	35·84	...	...
D	ACKLINGTON (Airfield)	Meteorological Office	5	1	0 138	...	30·40	186	133
D	Amble	Amble U.D.C.	5	1	0 12	...	28·95	188	118
D	Cheviot Hills (Carshope)	N'land Rivers Catch. Bd.	5	1	0 904	...	40·84	196	164
D	Howick Hall Gardens	The Rt. Hon. Earl Grey	8	1	0 110	28·2	34·67	216	139
D	Stamford	W. Robertson, Esq.	5	1	0 175	...	32·11	198	137
D	Doxford Hall	Rt. Hon. Viscount Runciman	5	1	0 175	...	35·17	191	135
D	Chathill (Preston Tower)	H. Baker Cresswell, Esq.	8	1	0 140	28·3	34·35	182	132
D	Belford (Newlands)	late C. H. Sanderson, Esq.	5	4	8 160	...	30·10	188	131

§ Turf wall round gauge.

DIVISION X—NORTHERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	NORTHUMBERLAND—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	6.—TWEED. 262 sq. mi.								
d	Cheviot Hills (Linhope)	N'land Rivers Catch. Bd.	5	1	600	...	45·97	214	157
D	Ilderton (Lilburn Tower Gdns.)	Mr. C. Lovett	5	1	250	30·4	32·35	165	134
D	Cornhill (Pallinsburn)	Mrs. A. Turnbull	5	1	135	...	30·64	147	111
D	BERWICK-ON-TWEED (Ramparts)	Borough Surveyor	5	1	76	23·4	28·26	179	116
	7.—INSULAR. 1 sq. mi.								
	CUMBERLAND. (Area, 1,516 sq. mi.)								
	1.—EDEN & SOLWAY. 887 sq. mi.								
D	Watermillock (Lake View)	T. Slee, Esq.	5	0	8	560	...	66·92	220	181
D	Penrith (Hutton John)	F. Hudleston, Esq., C.E.	5	1	0	688	45·1	51·94	204	181
d	Penruddock (Council School)	Headmaster	5	1	6	850	...	55·45	208	182
W	Threlkeld (Skiddaw House)	J. Thompson, Esq.	5	1	6	1480	78·0	77·20	...	...
D	Penrith (Arthur Street)	A. B. Sinclair, Esq.	5	1	0	500	36·4	37·17	220	165
D	Penrith (NEWTON RIGG)	Cumberland County Council	5	1	0	560	36·4	37·93	207	159
D	Uldale (Chapel House Res.)	J. R. Watters, Esq.	8	1	0	620	46·2	52·26	217	200
D	Penrith (Nunwich Hall)	Lt.-Col. C. H. F. Thompson	5	2	0	258	31·8	34·64	204	156
D	Penrith (Great Salkeld)	Rev. G. A. K. Hervey	5	1	0	350	...	35·17	226	158
D	Troutbeck (Wellbank)	Miss R. A. S. Streatfield	5	1	0	800	...	77·07	227	204
d	Renwick	R. Eden Catchment Board	5	1	0	712	...	40·55	...	...
D	Wigton (Brookfield)	J. Carruthers, Esq., B.A.,B.Sc.	5	1	0	124	36·7	39·66	208	163
d	Wreay Vicarage	Rev. J. Sanderson	5	1	0	300	31·5	33·50	...	...
D	Silloth	Wigton R.D.C.	5	1	0	27	*34·2*	44·44	211	167
D	Geltsdale	P. Dalton, Esq., C.E.	5	1	2	778	36·8	42·45	228	185
D	Carlisle (Spital Cemetery)	Superintendent	8	1	0	114	31·8	38·67	231	165
	Carlisle (Denton Holme)	E. J. M. Lawson, Esq.	5	1	0	57	30·1	38·70	...	...
D	Carlisle (Rose Hill)	H. Lonsdale, Esq.	8	1	0	105	...	40·65	220	179
D	Carlisle (Sewage Works)	P. Dalton, Esq.	5	1	0	39	...	39·64	215	169
D	Brampton (Secondary School)	River Eden Catchment Board	5	1	0	281	...	36·87	...	...
d	Longtown (C.A.D.)	Officer in Charge	5	1	10	25	...	43·87	174	158
D	Bewcastle (Stockastead)	Border R.D.C.	5	1	0	750	*47·5*	51·18	237	173
	2.—DERWENT. 257 sq. mi.								
M	Sprinkling Tarn	F. Bainbridge, Esq., for M.O.	5	1	6	1985	*151·8*	208·75	...	...
M	Styehead Tarn	F. Bainbridge, Esq., for M.O.	5	1	0	1472	*145·8*	194·25	...	...
M	Styehead B.	F. Bainbridge, Esq. for M.O.	5	1	0	1070	145·7	206·25	...	...
M	Styehead A.	F. Bainbridge, Esq., for M.O.	5	1	0	1070	*139·8*	184·75	...	...
M	Borrowdale (Stockley Bridge)	F. Bainbridge, Esq., for M.O.	5	1	0	585	*130·9*	166·00	...	...
M	Borrowdale (Seathwaite)	F. Bainbridge, Esq., for M.O.	5	1	0	423	...	137·75	...	...
M	Helvellyn (Hill Top Gill)	Manchester Corpn. W.W.	5	1	0	1050	...	120·27	...	...
M	§Ullscarf	Manchester Corpn. W.W.	5	1	0	2100	119·8	150·15	...	...
M	Thirlmere (The Nook)	Manchester Corpn. W.W.	8	...	...	700	...	116·62	...	...
M	Wythburn	Manchester Corpn. W.W.	5	1	0	610	96·8	121·12	...	...
M	Helvellyn (Brown Rigg)	Manchester Corpn. W.W.	5	1	0	1450	*112·0*	141·17	...	...
D	Watendlath Farm	W. Tyson, Esq., for M.O.	5	1	0	800	*88·5*	100·73	224	199
D	§Thirlmere (Dale Head Hall)	Manchester Corpn. W.W.	5	1	0	620	86·7	104·07	266	218
	Grange-in-Borrowdale (Bield)	J. E. Bowes, Esq.	5	1	6	300	...	104·29	...	...
D	Keswick (Derwent Island)	Denis Marshall, Esq.	5	1	0	290	57·0	69·22	237	195
D	KESWICK (High Hill)	Clerk to the U.D.C.	5	1	0	254	54·9	67·47	221	193
D	Braithwaite (Blackwood)	C. Barnes, Esq.	8	1	0	400	*60·3*	79·90	224	195
d	Keswick (Mirehouse)	Miss Spedding	5	1	6	280	49·8	58·33	...	...
D	Workington (Stainburn Res.)	Borough Surveyor	5	1	0	180	36·9	47·39	192	152
D	Cockermouth (South Lodge)	Capt. J. Upton Armstrong	5	1	0	242	...	52·01	228	167
D	Bassenthwaite (Higham)	Miss E. Fisher	5	1	0	500	44·9	55·53	209	190

§ Turf wall round gauge.

DIVISION X—NORTHERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	CUMBERLAND—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	3.—WEST COAST STREAMS. 235 sq. mi.								
D	Ravenglass (The Grove) ...	... G. T. A. Ogilvie, Esq. ...	5	1 0	70	42·5	48·10	198	170
d	Gosforth (Netherwasdale) ...	... J. M. Sewell, Esq.	5	1 0	180	...	64·87	199	180
D	Braystones	... H. H. Watson, Esq. ...	5	1 0	36	37·5	45·63	200	154
M	Beckermet (Bankfield)	... J. R. Atkinson, Esq. ...	5	1 0	132	...	42·31	...	...
M	Wast Water (Wasdale Head) ...	... H. H. Watson, Esq. ...	5	1 0	280	...	107·60	...	...
D	St. Bees (Fern Bank)	... Lt.-Col. G. Dixon	5	1 6	60	42·7	50·23	210	172
M	Ennerdale (Gillerthwaite) ...	... H. H. Watson, Esq. ...	5	1 0	445	...	106·20	...	...
D	St. Bees Head (Lighthouse) ...	... Principal Keeper	...	... ...	400	...	43·27	212	159
D	Whitehaven (Scragill Reservoir)	... The Borough Engineer ...	8	1 0	188	...	43·82	202	155
	4.—DUDDON & C. 50 sq. mi.								
D	§Ulpha	... Engineer, Barrow	5	1 0	251	...	86·70	240	197
	5.—SOUTH TYNE. 87 sq. mi.								
D	Alston Vicarage...	... Rev. N. A. Walton ...	5	1 0	940	*44·7*	51·90	220	182
	WESTMORLAND. (Area, 783 sq. mi.)								
	1.—EDEN. 373 sq. mi.								
D	Kirkby Stephen (Eden Place) ...	... Miss Marcia Mason ...	5	1 0	544	42·3	48·67	221	170
	§Wasdale Pike	... Manchester Corpn. W.W. ...	5	1 0	1825	79·4	109·00	...	...
	Mosedale (Mosedale Cottage)	... Manchester Corpn. W.W. ...	5	1 0	1443	87·8	114·00	...	...
M	§Mosedale (Artle Crag) ...	... Manchester Corpn. W.W. ...	5	1 0	2134	...	123·84	...	...
	Wet Sleddale (Mirethwaite) ...	... Manchester Corpn. W.W. ...	5	1 0	995	64·7	87·30	225	192
M	§Blea Water	... Manchester Corpn. W.W. ...	5	1 0	1400	*104·0*	112·02	...	...
	Sleddale (High Wether Howe)	... Manchester Corpn. W.W. ...	5	1 0	1620	...	102·50	...	...
	§Shap (Birkbeck Fell)	... Manchester Corpn. W.W. ...	5	1 0	935	56·0	71·53	...	...
	Swindale Parsonage	... Manchester Corpn. W.W. ...	5	1 0	875	*70·0*	87·93	...	...
	§Mardale (Whelter)	... Manchester Corpn. W.W. ...	5	1 0	819	...	110·91	...	...
	Shap (Thornship Gill)	... Manchester Corpn. W.W. ...	5	1 0	844	57·3	71·71	...	...
	§Mardale (Guerness)	... Manchester Corpn. W.W. ...	5	1 0	905	...	100·10	...	...
	§Shap (Tailbert Head)	... Manchester Corpn. W.W. ...	5	1 0	1100	55·6	70·23	218	180
M	§Hawes Water (Wallow Crag) ...	... Manchester Corpn. W.W. ...	5	1 0	1412	72·1	88·73	...	...
M	Hawes Water (Naddle House)	... Manchester Corpn. W.W. ...	5	1 0	825	60·5	80·48	...	...
	Hawes Water (Sandhills) ...	... Manchester Corpn. W.W. ...	...	... ...	824	69·6	88·35	...	...
	Measand Beck (Keasgill) ...	... Manchester Corpn. W.W. ...	5	1 0	1800	82·7	101·00	...	...
d	Crosby Ravensworth	... R. Eden Catchment Board	5	1 0	612	...	53·97	...	...
D	§Hawes Water (Burn Banks) ...	... Manchester Corpn. W.W. ...	5	1 0	835	*65·0*	83·53	233	181
D	Patterdale Hall	... F. C. Scott, Esq.	5	1 3	490	86·7	116·04	218	195
d	Patterdale (Greenside Mine) ...	... Basinghall Mining Synd. Ltd.	5	0 9	1081	91·9	114·26	...	...
M	§Bampton (Sealhole Grain) B.	... Manchester Corpn. W.W. ...	5	1 0	1750	...	98·86	...	...
	Bampton (Stanegarth)	... Manchester Corpn. W.W. ...	5	1 0	913	59·5	79·23	...	...
M	Cawdale Beck (Howe Grain) ...	... Manchester Corpn. W.W. ...	5	1 0	1642	*67·6*	90·29	...	...
	Heltondale (Kidmoor) ...	... Manchester Corpn. W.W. ...	5	1 0	1043	...	77·42	...	...
d	Appleby (Castle)	... A. J. Collins, Esq., B.Sc. ...	5	1 0	480	35·0	39·11	...	147
	Appleby (Bongate Cross) ...	... E. H. Illingworth, Esq. ...	5	1 0	543	...	38·91	...	...
D	Penrith (Lowther Castle) ...	... Mr. J. Jeffrey	5	1 0	750	41·8	45·83	199	170
D	Penrith (Barton House) ...	... Mrs. Legh Tolson	5	1 0	500	42·4	46·44	211	171
D	Temple Sowerby	... R. Eden Catchment Board	5	1 0	355	...	37·82	215	152
	2.—LEVEN. 60 sq. mi.								
D	Windermere (Holehird) ...	... H. L. Groves, Esq. ...	5	1 0	483	68·0	66·51	244	192
D	Windermere (Brockhole) ...	... C. Bateman, Esq.	5	0 8	175	66·3	73·25	215	181
D	Windermere (Briery Close) ...	... Mrs. E. L. Hedley	5	1 0	325	...	77·18	234	190

§ Turf wall round gauge.

DIVISION X—NORTHERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	WESTMORLAND—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	2.—LEVEN—(*contd.*).								
D	Troutbeck (Yew Tree Cottage)	... B. L. Thompson, Esq. ...	5	0 10	550	...	83·40	241	204
D	AMBLESIDE (The Lakes) (U.D.C.)	... Clerk to the Council ...	5	1 0	145	*66·8*	85·71	236	202
D	Ambleside (Market Square) ...	... G. A. Johnston, Esq., M.D.	5	1 0	180	75·1	87·91	244	214
D	Rydal (High Close)	... F. E. T. Jones Balme, Esq.	8	0 9	553	83·3	97·78	234	211
D	Rydal (The Hall)	... R. E. Porter, Esq.	5	1 0	354	82·1	94·68	234	207
D	Grasmere (Meadow Brow) ...	... J. Abbott, Esq.	5	1 0	350	...	106·98	237	211
	3.—KENT. 188 sq. mi.								
D	Heversham (Plumtree Hall) ...	... Miss Lilian Watson ...	5	3 7	120	45·7	47·79	214	179
D	Levens (Beathwaite)	... John A. Bush, Esq. ...	5	1 0	105	*46·8*	56·81	197	180
d	Killington Reservoir	... Docks & Inland Waterways	5	1 0	670	*49·8*	64·88	...	185
D	Kendal School	... N. Whitton, Esq.	5	1 0	136	...	56·03	197	162
D	Kendal Gasworks	... Borough of Kendal... ...	5	1 3	146	*48·2*	57·25	210	171
D	Kendal (Fisher Tarn Res.) ...	... Borough of Kendal... ...	5	1 0	742	*51·7*	63·34	225	191
D	Kendal (Ellergreen)	... J. W. Cropper, Esq. ...	5	1 6	270	58·2	70·52	242	191
d	Kendal (Potter Fell)	... Messrs. J. Cropper & Co. Ltd.	5	2 0	750	70·6	86·55	...	...
M	Troutbeck (Dubbs Reservoir)	... Windermere U.D.C. ...	5	1 3	745	...	71·47	...	...
	4.—LUNE. 122 sq. mi.								
D	Kirkby Lonsdale (Stoop Lane)	... Mrs. H. E. Hollins ...	5	2 0	205	*46·0*	57·87	224	178
	5.—TEES. 40 sq. mi.								
	Lunedale (Conny Pot)	... T. S. R. Winter, Esq., C.E.	5	1 0	1840	...	66·40	...	...

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS

	MONMOUTH. (Area, 534 sq. mi.)								
	1.—RHYMNEY. 39 sq. mi.								
D	Machen (Machen Quarry) ...	... Machen Quarries, Ltd. ...	5	2 0	250	...	56·53	189	153
	2.—EBBW. 88 sq. mi.								
D	Rogerstone (Newport Golf Links)	... W. H. Halsey, Esq. ...	5	0 8	304	...	54·85	189	161
D	Abercarn (Nantydraenog Res.)	... W. Cory Goddard, Esq., C.E.	5	1 0	715	...	65·63	183	160
D	Blackwood	... T. J. Jones, Esq.	5	0 10	630	...	62·62	212	160
D	Abertillery (The Park)	... Medical Officer of Health ...	5	0 10	600	57·2	67·87	203	165
D	Tredegar (Poplar Road) ...	... S. L. Filer, Esq.	5	1 6	963	...	71·58	201	172
d	Tredegar Laboratory	... National Coal Board ...	5	2 0	950	...	70·71	211	170
D	Ebbw Vale (Iron Works) ...	... Richard Thomas & Baldwins	8	1 0	902	...	69·98	226	171
D	Ebbw Vale W.W. (Carno S.)	... J. Grafton Hoskins, Esq., C.E.	5	1 0	1262	...	71·92	213	176
	3.—USK & C. 290 sq. mi.								
D	Portskewett (Sudbrook) ...	... Divisional Engineer ...	8	1 0	51	...	38·83	162	125
D	NEWPORT (Hospital)	... Medical Officer of Health ...	8	1 0	265	...	49·35	207	151
D	Newport W.W. (Friar St. Yard)	... Newport Corporation ...	5	6 0	32	...	44·09	174	139
D	Newport W.W. (Ynis-y-fro Res.)	... Newport Corporation ...	5	1 0	130	...	44·15	182	139
D	Newport W.W. (Pant-yr-eos Res.)	... Newport Corporation ...	5	1 0	485	...	60·82	214	169
D	Newport W.W. (Llanvaches) ...	... Newport Corporation ...	5	0 10	456	...	42·55	188	144
D	Newport W.W. (Nantypridd)	... Newport Corporation ...	5	1 0	500	...	47·45	186	148
d	Chepstow (Itton Court) ...	... Lady Curre	5	1 0	390	...	42·82	...	140
D	Newport W.W. (Newchurch) ...	... Newport Corporation ...	5	1 0	550	...	46·51	185	149
D	USK	... Monmouth Agric. Institute	5	1 0	70	...	43·46	197	140
D	Goytre (Goytre Hall)	... Mrs. L. Whitehead, O.B.E.	5	1 0	300	46·1	54·50	193	146
d	Blaenavon (Estate Office) ...	... Estate Agent	8	1 0	1144	55·1	63·40	...	...
D	Abergavenny (Plas Derwen) ...	... Alan Whitehead, Esq. ...	5	1 6	200	...	49·09	174	140
D	Abergavenny (Ty-Clyd) ...	... F. D. Llewelyn, Esq. ...	5	1 0	272	45·1	53·97	179	140

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	MONMOUTH—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	3.—USK & C.—(*contd.*).								
D	Abergavenny (Richmond Road)	Miss E. A. Edmunds	8	1 0	256	40·6	46·84	163	135
D	Abergavenny (Larchfield)	Medical Superintendent	5	1 0	240	37·5	44·98	167	137
D	Grwyne Fawr (Coed Dias)	Miss Baker-Gabb	5	1 0	950	44·6	50·77	190	158
	4.—WYE. 117 sq. mi.								
D	Monmouth (Cornwall House)	P. G. Harvey, Esq., M.D.	5	0 11	55	...	36·14	169	124
D	Llantilio	Rev. D. P. Glyn-Davies	5	1 0	210	...	37·65	170	128
D	Skenfrith	W. J. Hamer, Esq.*	5	1 0	140	...	39·50	178	135
D	Trewyn	Mrs. C. C. Molyneux	5	0 10	500	...	48·50	189	144
D	Grosmont	Miss D. K. Estcourt	5	1 0	420	...	42·61	168	137
	GLAMORGAN. (Area, 808 sq. mi.).								
	1.—LOUGHOR. 55 sq. mi.								
D	Felindre (Blaennant-Ddu) N.	T. Price, Esq., C.E.	5	1 0	412	...	73·76	227	193
D	Felindre (Lower Lliw Res.)	T. Price, Esq., C.E.	8	1 0	416	...	73·47	226	190
D	Felindre (Upper Lliw Reservoir)	T. Price, Esq., C.E.	8	1 3	599	...	80·49	222	189
	2.—GOWER PENINSULA. 62 sq. mi.								
D	Gower (Penrice Castle)	Major B. C. Smartt	5	2 0	20	...	52·63	215	171
D	Penmaen (Cefn Mor)	Mrs. R. A. Bostock	5	1 6	300	41·5	52·22	170	159
	3.—TAWE. 47 sq. mi.								
D	SWANSEA (Victoria Park)	(+A) Town Clerk	8	1 0	32	...	50·36	202	167
D	Clydach (Wernfadog)	C. G. Bellingham, Esq.	8	1 0	400	...	69·68	233	188
d	Clydach	Mond Nickel Co., Ltd.	5	1 4	78	...	65·04	...	168
D	Ystalyfera (Wern House)	Miss L. Williams	5	1 6	240	64·8	84·23	218	195
	4.—NEATH. 82 sq. mi.								
D	Briton Ferry (Cefn Court)	Borough Engineer, Neath	5	1 0	503	47·7	58·14	208	179
D	Neath (Oil Refineries)	National Oil Refineries, Ltd.	5	1 0	145	...	62·83	205	176
D	Neath (Cimla Reservoir)	Borough Engineer	5	1 0	360	...	67·33	203	182
D	Neath (Gnoll Reservoir)	Borough Engineer	5	1 0	204	52·1	64·82	203	174
D	Neath (Brynteg)	H. P. Lloyd, Esq.	5	0 9	100	...	69·79	214	185
D	Neath (Glynfelin)	T. Gibbins, Esq.	5	1 4	180	...	71·53	218	184
D	Rhondda W.W.(Llyn Fawr Res.) *new g.*	Elwyn Jones, Esq.	5	1 0	1220	...	116·60	228	200
D	Resolven (Brynawelan)	Forestry Commission	5	1 0	250	...	77·84	227	194
	5.—OGMORE & C. 350 sq. mi.								
d	St. Athan	H. Thomas, Esq.	5	1 0	50	...	48·49	...	...
D	Lower Penarth	Surveyor	5	1 0	66	34·9	42·02	173	147
D	Penarth (Cemetery)	Surveyor	5	1 0	99	...	42·97	175	141
D	Penarth (West House)	Surveyor	5	1 0	148	37·1	47·14	183	147
d	Dunraven Castle	Dunraven Estates Co. Ltd.	5	1 0	71	...	39·83	...	131
D	Cardiff (Cogan Pumping Station)	G. W. Cover, Esq., C.E.	5	1 0	121	37·7	48·11	184	149
d	Cowbridge (Tair Onen)	Forestry Commission	5	1 0	421	...	54·20	156	138
D	Cardiff (St. Fagan's Castle)	Mr. A. W. Pearce	5	1 0	100	48·5	56·65	181	169
D	Cowbridge (Pentre Meyrick)	F. E. P. Dunn, Esq.	5	1 0	300	...	53·56	211	160
	Merthyr Mawr (Schwyll)	Mid-Glamorgan Water Bd.	5	1 3	45	...	45·59	...	...
	Merthyr Mawr	R. I. Nicholl, Esq.	5	1 0	75	42·9	52·77	...	...
D	Bridgend (Eiw Graig)	H. J. Randall, Esq.	8	1 6	50	...	50·86	225	170
D	Llanharan (Sewage Works)	H. Thomas, Esq.	5	1 0	175	...	59·77	200	171
D	Maesteg (Salisbury Road)	H. L. Davies, Esq.	5	1 0	560	...	79·85	204	184
D	Maesteg (Isolation Hospital)	Engineer & Surveyor	8	1 0	600	...	77·61	221	198
D	Maesteg (Welfare Park)	Engineer & Surveyor	5	1 0	550	...	85·50	232	205

* *Per* River Wye Catchment Board.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in or more
	GLAMORGAN—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	5.—OGMORE & C.—(*contd.*).								
d	Pontycymmer	Mid-Glamorgan Water Bd.	8	1 0	560	...	93·82	...	...
D	Ogmore Vale	Mid-Glamorgan Water Bd.	8	1 2	580	...	104·96	214	195
	6.—TAFF. 157 sq. mi.								
D	Rhubina Reservoir	G. W. Cover, Esq., C.E.	5	1 0	336	48·1	60·66	200	168
D	Pontypridd (Ty-Gwyn Res.)	Pontypridd & Rhondda W.B.	5	1 0	725	...	71·59	201	176
D	Pontypridd (Treforest Secondary Sch.)	Headmaster	5	1 0	360	...	74·30	185	167
D	Pontypridd (Boys Grammar School)	E. G. Mort, Esq.	5	1 3	330	...	76·34	208	178
D	Pontypridd (Lan Wood Reservoir)	Pontypridd & Rhondda W.B.	5	1 6	300	...	74·30	196	174
D	Porth Park	E. Taylor, Esq.	5	1 0	400	...	86·87	208	184
D	Pontypridd (Llanfabon)	Pontypridd & Rhondda W.B.	5	1 0	600	...	75·66	205	175
D	Ystradyfodwg (Tyntyla Hospital)	Medical Officer of Health	5	1 0	590	...	85·40	209	181
D	§Gelli-galed Recreation Ground	E. Taylor, Esq.	5	1 0	475	...	94·37	211	187
D	§Treorchy Pumping Stn.	E. Taylor, Esq.	5	1 0	515		106·77	219	190
D	Ferndale Park	E. Taylor, Esq.	5	1 0	860	...	90·40	207	186
d	Treharris Service Reservoir	D. C. W. Jones, Esq., C.E.	5	1 3	765	52·3	65·19	179	154
D	Treherbert Park	E. Taylor, Esq.	5	1 0	600	...	112·57	230	197
D	Mountain Ash (Darranlas Res.)	Engineer & Surveyor	5	0 11	540	63·0	77·68	211	176
D	§Treherbert (Tyn-y-waun) *new g.*	Elwyn Jones, Esq.	5	1 0	801	87·0	111·21	229	191
D	Rhondda (Castell Nos Res.)	Pontypridd & Rhondda W.B.	5	1 0	1060	...	110·84	232	198
D	Rhondda (Lluest Wen Res.)	Pontypridd & Rhondda W.B.	5	1 0	1280	89·0	118·64	232	203
D	Merthyr Tydfil (Penybryn Filters)	D. C. W. Jones, Esq., C.E.	5	1 3	937	54·0	61·63	217	187
D	Merthyr Tydfil (Ardwyn)	F. L. G. Bevan, Esq.	5	1 0	770	...	69·84	214	170
D	Dowlais	Imperial Chem. Industries	5	1 7	1075	...	68·02	222	180
D	Dowlais (Gwernllwyn)	A. F. Adams, Esq.	5	1 0	1071	51·4	64·78	210	171
D	Dowlais (Garth Filter Beds)	A. C. Quiningborough, Esq.	5	1 0	1245	...	67·61	221	189
	7.—RHYMNEY. 55 sq. mi.								
D	Cardiff (Roath Park)	Chief Officer of Parks	5	1 0	51	41·6	48·64	185	155
D	CARDIFF (Penylan) (+A)	Medical Officer of Health	5	1 0	202	41·4	50·08	185	152
D	Cardiff (Heath Filters)	G. W. Cover, Esq., C.E.	5	1 0	132	41·3	50·21	196	155
D	Llanishen Reservoir	G. W. Cover, Esq., C.E.	5	1 0	155	39·4	50·91	186	157
D	Ystrad Mynach (Park Lane)	E. B. Johnston, Esq.	5	1 0	506	...	70·77	207	166
D	Rhymney Bridge Reservoir	Engineer	8	0 6	1150	...	67·22	234	200
	CARMARTHEN. (Area, 918 sq. mi.)								
	1.—TEIFI. 87 sq. mi.								
	2.—TOWY & C. 715 sq. mi.								
d	Whitland	United Dairies	5	1 0	60	...	60·50	...	...
D	Carmarthen (Farm Inst.)	Principal	5	1 0	17	...	61·26	214	177
D	Carmarthen (St. David's Avenue)	E. W. Francis, Esq.	5	1 0	100	...	58·91	223	175
D	Carmarthen (Cwmoernant Res.)	G. L. Ovens, Esq.	5	1 0	135	...	64·21	239	195
D	Carmarthen (Fryn-hir)	C. V. Lewis, Esq.	5	1 0	155	...	66·20	194	168
D	Llandilo (Dynevor Castle)	Lord Dynevor	8	1 0	202	53·2	67·47	242	195
W	Llyn-y-fan Fach (Waen Sychlwch)	Llanelly R.D.C.	5	1 0	1647	103·0	127·90	...	...
d	Llyn-y-fan Fach (Nant Coch)	Llanelly R.D.C.	5	1 0	1172	77·8	97·41	...	201
W	Llyn-y-fan Fach (Bua'r Llyn)	Llanelly R.D.C.	5	1 0	1650	102·0	123·89	...	...
d	Llyn-y-fan-Fach (Troed-y-Foel)	Llanelly R.D.C.	5	1 0	867	...	94·37	211	196
D	Llanddeusant (Pontcrynfe)	J. Thomas, Esq.	5	1 0	323	55·6	73·16	239	175
D	Conwil-Elvit (Cwmtawel Res.)	G. L. Ovens, Esq.	5	1 0	350	...	75·37	247	205
D	Brechfa	Capt. C. Joynson	5	1 0	290	...	78·69	238	192

§ Turf wall round gauge.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	CARMARTHEN—(*contd.*).		*in.*	*ft.*	*in.*	*ft.*	*in.*	*in.*		
	2.—TOWY & C.—(*contd.*).									
D	Abergorlech	S. L. Davies, Esq.	5	1	0	245	...	71·15	225	196
D	Llandovery (Nantyrhogfaen)	D. T. M. Jones, Esq.	5	1	0	249	50·8	62·41	231	177
d	Cynghordy (Clynsaer)	B. R. Gibbons, Esq.	5	1	0	490	...	62·51	...	179
D	Rhandirmwyn (Nantywyn)	Capt. H. R. H. Vaughan	5	1	0	475	...	70·61	242	203
	3.—LOUGHOR & C. 104 sq. mi.									
D	Llanelly (Filter Beds)	Llanelly U.D.C.	5	1	0	237	48·7	61·49	214	176
D	Llanelly (Cwmlliedi W.W.)	Llanelly U.D.C.	5	1	1	240	48·7	61·32	217	177
d	Pembrey (The Colony)	Forestry Commission	5	1	0	19	...	55·14	...	...
D	Llanelly (Upper Lliedi Res.)	Llanelly U.D.C.	5	0	11	290	...	62·64	221	178
D	Kidwelly	Llanelly U.D.C.	5	1	6	60	...	60·46	213	164
	4.—TAWE. 7 sq. mi.									
	5.—USK. 5 sq. mi.									
	6.—WYE.									
	PEMBROKE. (Area, 617 sq. mi.)									
	1.—TEIFI. 37 sq. mi.									
	2.—NEVERN & C. 91 sq. mi.									
D	Goodwick (Trenewydd)	Mrs. G. M. Johns	5	1	0	300	...	42·38	196	143
	3.—WEST COAST STREAMS. 82 sq. mi.									
	4.—CLEDDAU & C. 407 sq. mi.									
d	Pembroke (Stackpole Court)	Mr. F. G. Garlick	6	1	0	60	39·3	42·41	...	...
D	TENBY (The Priory)	Town Clerk	8	1	0	64	40·9	52·26	207	161
D	Pembroke Dock (County School)	Miss H. Hughes	5	1	0	85	...	47·01	193	150
D	ST. ANN'S HEAD (C. Guard Station)	Station Officer (M.O.)	8	1	0	142	37·1	40·24	188	145
D	PEMBROKE DOCK	Meteorological Office	5	1	0	25	...	47·11	196	154
D	Narberth (Bloomfield)	Miss L. Lewis Lloyd	5	0	10	275	...	57·13	226	186
D	HAVERFORDWEST (Hospital Grounds)	Borough Surveyor	5	1	0	133	...	46·41	212	161
D	Maenclochog (Ddolwen Bridge)	Milford Haven U.D.C.	5	1	0	740	...	74·69	211	182
D	Letterston (Trecwn House)	Superintending Engineer	8	0	10	391	...	57·53	169	159
	CARDIGAN. (Area, 688 sq. mi.)									
	1.—DOVEY. 20 sq. mi.									
	2.—YSTWYTH & C. 347 sq. mi.									
D	ABERPORTH	Meteorological Office	5	1	0	376	...	41·70	216	158
D	Llanafan (Crosswood Park)	Min. of Agric- and Fisheries	5	1	0	210	...	52·30	223	192
D	ABERYSTWYTH (Corporation Yard)	Town Clerk	8	1	0	12	36·5	43·01	193	160
D	ABERYSTWYTH (P.B.S.)	Dr. T. J. Jenkin	5	1	0	452	...	45·46	227	168
D	TALYBONT (LLETTY-EVAN-HEN)	Dr. T. J. Jenkin	5	1	0	930	...	49·02	219	176
d	Afon Rheidol (Nant-y-Moch)	Water Engineer, Aberystwyth	5	1	0	1060	...	84·31	...	183
M	§Plynlimon (Llygad Rheidol) *Higher g.*	Water Engineer, Aberystwyth	5	1	0	1660	...	95·30	...	...
M	§Plynlimon (Llygad Rheidol) *Lower g.*	Water Engineer, Aberystwyth	5	1	0	1650	...	99·20	...	...
	3.—TEIFI. 260 sq. mi.									
D	Llandysul (Sychpant Horeb)	J. A. Davies, Esq.	5	1	0	341	...	55·22	220	185
D	Cardigan (Plas Llangoedmore)	D. Berrington Davies, Esq.	5	1	0	120	...	44·23	205	171
d	Lampeter (Falcondale)	Sir Arthur Harford, Bart.	5	1	0	498	50·0	58·12	...	169

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	CARDIGAN—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	4.—TOWY. 46 sq. mi.								
	5.—WYE. 15 sq. mi.								
M	§Birmingham W.W. (Llyn Gynon)	C. A. Risbridger, Esq., C.E.	5	1	1500	70·7	77·00	...	...
M	§Birmingham W.W. (Bwlchyrhendre)	C. A. Risbridger, Esq., C.E.	5	1	1585	67·4	77·85	...	...
M	Birmingham W.W. (Claerddu)	C. A. Risbridger, Esq., C.E.	5	1	1470	71·6	78·90	...	...
M	Birmingham W.W. (Gwngu)	C. A. Risbridger, Esq., C.E.	5	1	1490	...	72·40	...	...
D	§Birmingham W.W. (Abergwngu)	C. A. Risbridger, Esq., C.E.	5	1	1150	67·1	77·93	250	206
	BRECON. (Area, 733 sq. mi.)								
	1.—TOWY. 17 sq. mi.								
	2.—TAWE. 41 sq. mi.								
D	Ystradgynlais (Yniscedwyn House)	G. Coleman, Esq.	5	0	232	65·2	86·13	232	196
D	Swansea W.W. (Nantyrwydd)	T. Price, Esq., C.E.	5	0	908	84·3	90·00	233	216
	3.—NEATH. 48 sq. mi.								
D	Ystradfellte Reservoir	Engineer (Neath R.D.C.)	5	1	1147	85·4	96·91	224	197
	4.—TAFF. 48 sq. mi.								
D	Aberdare (Nanthir Reservoir)	H. W. Crowther-Green, Esq.	5	1	860	59·6	71·46	239	177
D	Cardiff W.W. (Cefn-Coed-y-Cymmer)	G. W. Cover, Esq., C.E.	5	1	790	...	65·40	217	182
M	Taf Fechan (Pontsticill West) 14	A. C. Quiningborough, Esq.	5	1	1254	...	75·30	...	...
D	Cardiff W.W. (Llwynon Res.)	G. W. Cover, Esq., C.E.	5	1	860	64·7	74·45	233	193
W	Cardiff W.W. (Nant Ffynnon)	G. W. Cover, Esq., C.E.	5	1	1352	73·2	82·42	...	...
M	Cardiff W.W. (Garn Ddu)	G. W. Cover, Esq., C.E.	5	1	1340	70·3	82·58	...	...
D	Cardiff W.W. (Garw-nant)	G. W. Cover, Esq., C.E.	5	1	1100	75·5	90·78	231	203
W	Cardiff W.W. (Nant-Gwineu)	G. W. Cover, Esq., C.E.	5	1	1200	67·5	83·80	...	...
W	Cardiff W.W. (Cefn Gougarn)	G. W. Cover, Esq., C.E.	5	1	1362	75·7	88·13	...	...
W	Cardiff W.W. (Llysiog)	G. W. Cover, Esq., C.E.	5	1	1080	68·7	83·47	...	...
D	Taf Fechan (Pentwyn Res. S.)	A. C. Quiningborough, Esq.	5	1	1120	68·0	84·63	246	197
	Taf Fechan (Pentwyn Res. N.)	A. C. Quiningborough, Esq.	5	1	1090	66·5	83·15	...	...
W	Cardiff W.W. (Twyn-Gareg)	G. W. Cover, Esq., C.E.	5	1	1501	86·7	93·36	...	...
D	Cardiff W.W. (Cantref Res.)	G. W. Cover, Esq., C.E.	5	1	1080	69·9	88·09	233	199
D	Cardiff W.W. (Beacons Res.)	G. W. Cover, Esq., C.E.	5	1	1357	79·3	100·05	239	208
W	Cardiff W.W. (Nant Penig)	G. W. Cover, Esq., C.E.	5	1	2000	92·9	106·83	...	...
D	Cardiff W.W. (Storey Arms Field)	G. W. Cover, Esq., C.E.	5	1	1430	88·5	96·30?	238	206
W	Cardiff W.W. Blaen Taf Fawr	G. W. Cover, Esq., C.E.	5	1	1430	85·7	101·79	...	...
D	Taf Fechan (Neuadd Rs.) No. 1A	A. C. Quiningborough, Esq.	5	1	1423	84·6	90·95	238	203
D	Taf Fechan (Neuadd Rs.) No. 4	A. C. Quiningborough, Esq.	5	1	1487	83·0	92·87	238	210
D	Taf Fechan (Neuadd Rs.) No. 11	A. C. Quiningborough, Esq.	5	1	1524	68·3	86·20	238	201
D	Taf Fechan (Neuadd Rs.) No. 11A	A. C. Quiningborough, Esq.	5	1	1520	...	96·98	238	213
M	Taf Fechan (Neuadd Rs.) No. 2	A. C. Quiningborough, Esq.	5	1	1993	...	88·90	...	...
M	Taf Fechan (Neuadd Rs.) No. 5	A. C. Quiningborough, Esq.	5	1	1515	83·3	106·45	...	...
M	Taf Fechan (Neuadd Rs.) No. 10	A. C. Quiningborough, Esq.	5	1	1700	72·7	94·35	...	...
M	Taf Fechan (Neuadd Rs.) No. 8	A. C. Quiningborough, Esq.	5	1	1723	87·4	106·15	...	...
M	Taf Fechan (Neuadd Rs.) No. 6	A. C. Quiningborough, Esq.	5	1	2099	95·4	116·00	...	...
	5.—RHYMNEY. 2 sq. mi.								
	6.—EBBW. 7 sq. mi.								
D	Ebbw Vale W.W. (Llangynidr) 1	J. G. Hoskins, Esq.	5	1	1413	58·8	74·17	213	179
D	Ebbw Vale W.W. (Llangynidr) W3	J. G. Hoskins, Esq.	5	1	1468	...	77·17	213	181
D	Ebbw Vale W.W. (Llangynidr) NW2	J. G. Hoskins, Esq.	5	1	1471	...	75·26	213	180

§ Turf wall round gauge.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	BRECON—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	6.—EBBW—(*contd.*).								
D	Ebbw Vale W.W. (Carno, E.)	J. G. Hoskins, Esq.	5	1 0	1391	...	72·74	213	178
D	Ebbw Vale W.W. (Carno, W.)	J. G. Hoskins, Esq.	5	1 0	1412	...	74·48	213	181
D	Ebbw Vale W.W. (Carno, N.)	J. G. Hoskins, Esq.	5	1 0	1491	...	74·44	213	179
	7.—USK. 299 sq. mi.								
D	Gilwern (Bryn-yr-Haul)	R. E. John, Esq.	5	1 0	590	...	58·15	187	150
	Torpantau (Ynysposte)	Newport Corporation	5	1 0	741	66·8	81·84	...	...
	Torpantau (Blaen-caer-fanell)	Newport Corporation	5	1 0	1584	73·2	89·14	...	...
D	Talybont (Ffynonwen)	Newport Corporation	5	1 0	629	60·2	68·39	212	171
	Talybont (Pwll Ifor)	Newport Corporation	5	1 0	1224	65·3	81·02	...	...
D	Talybont (Filter House)	Newport Corporation	5	1 0	554	56·0	70·53	209	170
	Talybont (Craig Pwllfa)	Newport Corporation	5	0 7	1796	...	96·40	...	...
D	Talybont (Tyle Clydach)	Newport Corporation	5	0 11	709	...	72·43	207	170
	Talybont (Nant-y-Llanerch)	Newport Corporation	5	1 0	1007	...	84·94	...	...
	Talybont (Cefn Bach)	Newport Corporation	5	1 3	1263	...	87·25	...	...
D	Crickhowell (Glanusk Park)	Margaret Lady Glanusk	5	1 0	290	43·7	55·41	181	153
M	Swansea W.W. (Cray Rs.) No. 2	T. Price, Esq., C.E.	5	1 0	1019	...	86·66	...	...
D	Swansea W.W. (Cray Rs.) No. 1 (+A)	T. Price, Esq., C.E.	5	1 0	1043	...	84·34	232	203
M	Cray Post Office	J. A. Jones, Esq. for M.O.	5	1 0	930	69·1	86·50	...	...
D	Talybont (Ashford)	J. Henderson, Esq.	5	1 0	360	45·6	56·59	193	146
D	Llanfrynach (Ty-mawr)	Miss M. D. de Winton	5	1 0	450	...	53·34	190	156
D	CRICKHOWELL (Dan-y-Parc)	R. G. Sandeman, Esq.	8	1 0	230	...	51·08	190	152
D	Talybont (Yscythrog)	Lt.-Col. C. G. Cole-Hamilton	5	1 0	451	36·8	48·16	188	144
M	Crickhowell (Tal-y-maes)	Mrs. E. Jones, for M.O.	5	1 0	1250	46·7	52·10	...	⋮
d	Trecastle (Blaenau-hydfer)	Mr. M. Davies, for M.O.	5	1 0	970	63·2	91·79	...	...
D	Brecon (Tairbull School)	W. O. Davies, Esq.	5	1 0	660	52·0	56·34	180	150
D	Brecon (Ffrwdgrech)	Capt. J. D. D. Evans	5	1 0	560	...	54·15	194	145
D	Brecon (Waterworks)	Borough Engineer	5	1 0	550	...	53·82	196	153
d	Brecon (Mount Street School)	Headmaster	5	0 11	494	...	50·81	...	...
D	Black Mountains (Blaen-y-cwm)	W. Cory Goddard, Esq., C.E.	5	1 0	1423	54·5	63·22	211	180
D	Black M. (The Dam, Grwyne Fawr)	W. Cory Goddard, Esq., C.E.	5	1 0	1620	56·0	64·17	211	182
	8.—WYE. 271 sq. mi.								
D	Cathedine Rectory	Rev. J. H. Roderick, for M.O.	5	1 6	650	38·3	46·18	186	148
D	Llanthony (Capel-y-ffin)	Rev. P. J. Flood	5	1 0	1106	...	60·23	192	168
d	Llanfillo (County School)	The Headmistress	5	1 0	700	...	34·15	...	...
D	Talgarth (Maescoch)	F. T. Morgan, Esq.	5	1 0	450	*33·2*	37·44	179	127
D	Talgarth (South Wales Sanatorium)	Dr. H. E. Watson	5	1 0	500	...	37·37	171	134
W	Llanwrtyd Wells (Abernant)	T. A. Poole, Esq.*	5	1 0	632	57·2	62·12	...	...
D	Garth	T. A. Poole, Esq.*	5	1 0	541	...	56·46	229	186
M	Abergwesyn (Trallwn)	D. I. Felix, Esq., for M.O.	5	1 0	1000	75·5	93·10	...	...
D	Beulah (Llwyn Madoc)	C. M. Evan-Thomas, Esq.	5	1 0	750	...	70·31	214	195
	Llanafanfawr School	W. D. Swan, Esq.	5	0 8	800	...	62·79	...	...
D	Newbridge (Llysdinam)	Sir C. Venables Llewelyn, Bt.	5	1 3	646	41·2	50·06	218	176
M	§Birmingham W.W. (Cors-yr-hwch)	C. A. Risbridger, Esq., C.E.	5	1 0	1775	87·3	102·40	...	...
M	§Birmingham W.W. (Esgair Ceiliog)	C. A. Risbridger, Esq., C.E.	5	1 0	1560	77·3	96·20	...	...
M	§Birmingham W.W. (Llyn-Carw)	C. A. Risbridger, Esq., C.E.	5	1 0	1775	79·3	94·10	...	...
M	§Birmingham W.W. (Nant-y-car)	C. A. Risbridger, Esq., C.E.	5	1 0	1545	76·5	90·40	...	...
M	§Birmingham W.W. (Arban)	C. A. Risbridger, Esq., C.E.	5	1 0	1500	73·2	90·65	...	...
M	§Birmingham W.W. (Tyn-y-pant)	C. A. Risbridger, Esq., C.E.	5	1 0	1320	62·0	75·02	...	...
M	§Birmingham W.W. (Esgair Garthen)	C. A. Risbridger, Esq., C.E.	5	1 0	1590	75·5	84·55	...	...
D	Birmingham W.W. (Elan Village)	C. A. Risbridger, Esq., C.E.	5	1 0	700	54·4	66·36	240	185

* *Per* River Wye Catchment Board. § Turf wall round gauge.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	RADNOR. (Area, 474 sq. mi.)		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	1.—WYE. 424 sq. mi.								
d	Glasbury-on-Wye (Hampton School)	D. W. Lloyd, Esq.	5	1	276	33·9	37·14	...	...
D	Llyswen (Llanstephan Ho. Gdns.)	Lady Milford	5	1	440	...	46·22	194	168
d	Erwood (Bridgend)	Mrs. Powell*	5	1	407	...	44·61	...	...
D	Newchurch	F. E. Lloyd, Esq.*	5	1	801	...	41·76	162	139
D	§Builth (Cefndyrys)	Capt. E. A. Thomas	5	1	740	41·5	46·38	208	167
D	Builth (Pencerrig)	Cdr. C. L. Evan-Thomas, R.N.	5	1	750	...	43·37	207	157
d	Llansaintfraed-in-Elvel	R. Parry, Esq.*	5	1	673	38·7	42·35	...	...
D	New Radnor (Harpton Court Gdns.)	Sir Henry Duff Gordon, Bt.	5	0	700	43·8	46·83	202	158
D	Presteign (Evancoyd)	Major C. J. L. Lewis	5	1	744	...	41·15	198	141
D	LLANDRINDOD WELLS (The Common)	The Clerk to the U.D.C.	5	1	772	...	45·03	206	156
D	§Birmingham W.W. (Tyrmynydd)	C. A. Risbridger, Esq., C.E.	5	1	832	62·1	71·40	235	181
D	Birmingham W.W. (Ciloerwynt)	C. A. Risbridger, Esq., C.E.	5	1	1045	...	74·52	246	189
D	Birmingham W.W. (Nantgwillt)	C. A. Risbridger, Esq., C.E.	5	1	840	63·2	71·30	241	185
M	§Birmingham W.W. (Dwfnant)	C. A. Risbridger, Esq., C.E.	5	1	1050	65·3	(76·30)	...	...
M	§Birmingham W.W. (Esgair Gader) 2	C. A. Risbridger, Esq., C.E.	5	1	1500	67·3	78·75	...	...
M	Birmingham W.W. (Tynllidiart)	C. A. Risbridger, Esq., C.E.	5	1	1006	62·9	74·85	...	...
	§Birmingham W.W. (Claerwen)	C. A. Risbridger, Esq., C.E.	5	1	1250	67·7	75·25	...	...
D	§Birmingham W.W. (Tynant)	C. A. Risbridger, Esq., C.E.	5	1	1020	64·3	76·45	257	198
D	Rhayader (East Street)	R. Ashton, Esq.	5	1	700	49·2	53·73	205	167
d	Llanddewi-Ystradenny	J. E. Price, Esq.*	5	1	767	...	45·87	...	...
M	§Birmingham W.W. (Cerigllwydion)	C. A. Risbridger, Esq., C.E.	5	1	1710	72·4	82·90	...	...
M	§Birmingham W.W. (Pen-y-gareg) 1	C. A. Risbridger, Esq., C.E.	5	1	1500	...	67·91	...	...
M	§Birmingham W.W. (Pen-y-gareg) 2	C. A. Risbridger, Esq., C.E.	5	1	1540	...	67·83	...	...
M	Birmingham W.W. (Bryn Hir)	C. A. Risbridger, Esq., C.E.	5	1	1470	74·2	82·50	...	...
M	Birmingham W.W. (Abercaethon)	C. A. Risbridger, Esq., C.E.	5	1	1240	67·1	77·05	...	...
M	§Birmingham W.W. (Calettwr)	C. A. Risbridger, Esq., C.E.	5	1	1490	72·5	79·37	...	...
D	Abbey Cwmhir (The Hall)	Col. J. L. Philips	5	0	10 877	...	46·87	195	157
d	Llangunllo	H. Kendrick, Esq.*	5	1	0 776	...	48·67	...	...
M	§Birmingham W.W. (Figin) No. 2	C. A. Risbridger, Esq., C.E.	5	1	0 1700	81·3	85·75	...	...
M	Birmingham W.W. (Aberhenllan)	C. A. Risbridger, Esq., C.E.	5	1	0 1070	64·8	75·20	...	...
M	Llanbister (Llananno)	Mrs. A. Jones, for M.O.	5	1	0 900	45·1	56·50	...	...
D	St. Harmons	J. Hope, Esq.**	5	1	0 918	...	54·12	214	176
d	§St. Harmons (Bwlch-y-sarnau)	Mr. J. Wozencroft**	5	1	0 1288	...	56·03	...	...
D	Llanbadarn-Fynydd	Mr. P. A. Stephens**	5	1	0 974	...	51·45	236	177
	2.—SEVERN. Right Bank Tributaries. 50 sq. mi.								
	MONTGOMERY. (Area, 797 sq. mi.)								
	1.—DOVEY. 120 sq. mi.								
D	Machynlleth (Plas Llwyn Gwern)	The Hon. R. E. B. Beaumont	5	0	9 150	...	90·16	208	183
	2.—YSTWYTH. 7 sq. mi.								
	3.—WYE. 37 sq. mi.								
W	Corris (Esgaitgeiliog Camp)	Forestry Commission	5	0	11 240	...	(87·39)	...	...
D	Birmingham W.W. (Bod-Talog)	C. A. Risbridger, Esq., C.E.	5	1	0 1250	65·8	76·34	229	212
	Birmingham W.W. (Glan-Fedwen)	C. A. Risbridger, Esq., C.E.	5	1	0 1375	67·7	78·25	...	...
	Llangurig (Dernol)	E. W. Price, Esq., for M.O.	5	1	0 870	52·7	58·21	...	...
	4.—SEVERN. Right Bank Tributaries. 154 sq. mi.								
D	Llanidloes (Hillfield)	G. E. Edwards, Esq.	5	1	6 550	...	44·51	198	163
D	Llanidloes (Mount Severn)	A. L. Onslow, Esq.	5	1	0 600	...	55·48	198	166
D	Newtown (Mochdre Reservoir)	Surveyor	5	0	9 650	...	42·29	179	156
D	Newtown (Penarth Weir)	British Railways	8	1	0 321	35·0	42·21	175	143
D	Newtown (Gregymog Hall Gardens)	G. C. Austin, Esq.	5	1	6 650	...	38·47	221	160

* *Per* River Wye Catchment Board. § Turf wall round gauge.
** *Per* River Wye Catchment Board (by courtesy of the local County Council).

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	MONTGOMERY.—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	5.—SEVERN. Left Bank Tributaries. 479 sq. mi.								
D	Berriew (Vaynor Park)	Major W. J. Corbett-Winder	5	1 0	650	...	35·31	199	149
D	Berriew (Brithdir Hall)	Mrs. F. E. Marston	5	1 0	350	30·7	36·80	202	153
D	WELSHPOOL (County School)	Headmaster	5	1 0	254	30·1	33·47	176	135
D	Welshpool (Fron Llwyd)	Col. G. B. D. Harrison	5	1 3	500	33·7	40·46	181	159
D	Llanymynech (Penrhos Vicarage)	Rev. W. Griffith	5	1 0	300	...	35·77	201	147
d	Llanfyllin (Penllwyn)	Major J. E. M. Dugdale	5	0 7	649	...	46·86	...	...
	Lake Vyrnwy (Cownwy Dam)	Lt.-Col. F. Hibbert, C.E.	8	1 0	929	55·7	69·78	...	...
	Llanymynech (Pentreheylin Hall)	H. P. Hall, Esq.	5	2 0	220	...	32·11	...	...
W	Llanymynech (White Rock)	J. Moon, Esq.	5	1 0	350	...	29·98	...	...
D	Lake Vyrnwy	H. J. Minett, Esq.	5	0 7	770	54·0	73·30	234	194
	Lake Vyrnwy (Hên Gerig)	Lt.-Col. F. Hibbert, C.E.	5	1 0	1230	...	98·71	...	...
	Lake Vyrnwy (Bryn Gwyn)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1311	56·7	74·18	...	...
D	LAKE VYRNWY (Experimental Stn.) (+A)	Lt.-Col. F. Hibbert, C.E.	5	1 0	995	55·5	75·50	244	194
	Lake Vyrnwy (Lakeside)	Lt.-Col. F. Hibbert, C.E.	8	1 0	835	...	74·41	...	...
	Lake Vyrnwy (Heol-y-ffridd) No. 1	Lt.-Col. F. Hibbert, C.E.	8	1 0	913	...	88·17	...	...
	Lake Vyrnwy (Heol-y-ffridd) No. 2	Lt.-Col. F. Hibbert, C.E.	8	1 0	830	...	87·20	...	...
	Lake Vyrnwy (Tyn-y-ffridd)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1010	...	71·39	...	...
	Lake Vyrnwy (Lluestwen) No. 2	Lt.-Col. F. Hibbert, C.E.	8	1 0	1620	...	94·89	...	...
	Lake Vyrnwy (Llwynrhiw)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1428	...	97·30	...	...
	Lake Vyrnwy (Nant Cawell)	Lt.-Col. F. Hibbert, C.E.	5	1 0	1610	77·4	104·25	...	...
	Lake Vyrnwy (Hirnant)	Lt.-Col. F. Hibbert, C.E.	8	1 0	766	...	68·47	...	...
	Lake Vyrnwy (Eunant Bridge)	Lt.-Col. F. Hibbert, C.E.	5	1 0	830	...	92·59	...	...
	Lake Vyrnwy (Gadfa)	Lt.-Col. F. Hibbert, C.E.	5	1 0	1521	81·4	108·55	...	...
	Lake Vyrnwy (Carreg Goch)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1780	66·1	87·72	...	...
	Lake Vyrnwy (Rhiwargor)	Lt.-Col. F. Hibbert, C.E.	5	1 0	860	...	86·13	...	...
	Lake Vyrnwy (Stone)	Lt.-Col. F. Hibbert, C.E.	5	1 0	1499	72·2	89·52	...	...
	§Lake Vyrnwy (Fawnog)	Lt.-Col. F. Hibbert, C.E.	8	1 0	1315	55·7	74·30	...	...
	Lake Vyrnwy (Pennant Melangell)	Lt.-Col. F. Hibbert, C.E.	8	1 0	660	...	67·49	...	...
	Lake Vyrnwy (Erw Berfedd)	Lt.-Col. F. Hibbert, C.E.	5	1 0	1800	67·8	86·21	...	...
D	Pen-y-bont (Rhiwlas)	Lt.-Col. F. Hibbert, C.E.	5	1 0	748	...	53·23	210	175
	FLINT. (Area, 256 sq. mi.)								
	1.—DEE. 198 sq. mi.								
D	Hanmer (Gredington)	Lady Kenyon	5	1 0	300	30·4	28·77	169	137
D	Hawarden (High Park)	C. F. Williams, Esq.	5	0 10	256	...	27·17	181	136
D	HAWARDEN (Airfield)	Meteorological Office	5	1 0	15	...	25·56	179	127
D	Mold (Mount Pleasant)	E. G. Hutson, Esq., C.E.	5	1 0	503	...	33·22	194	156
D	Cilcain (No. 2 Reservoir)	Hawarden & Dist. W.W. Co.	5	1 0	785	...	34·51	203	161
W	Cilcain (No. 4 Reservoir)	Hawarden & Dist. W.W. Co.	5	1 0	900	...	35·04	...	...
D	Northop (Soughton Hall)	R. W. Bankes, Esq.	5	1 0	418	32·1	33·91	199	161
D	Cilcain (Cilcen Hall)	Miss W. Yates	5	0 9	700	29·7	37·70	196	156
D	Connah's Quay (Mold Road)	E. G. Hutson, Esq., C.E.	5	1 0	43	...	27·12	195	140
D	Connah's Quay (Pengwladys)	E. G. Hutson, Esq., C.E.	5	1 0	231	...	25·28	192	142
D	HAWARDEN BRIDGE	Messrs. J. Summers & Sons	8	1 0	17	24·3	25·20	185	133
d	Halkyn (Bryn Awel)	Halkyn District Mines, Ltd.	5	0 7	870	...	35·44	...	...
D	Mostyn	Darwen & Mostyn Iron Co.	5	3 2	15	...	30·34	186	135
	2.—CLWYD. 51 sq. mi.								
D	Bodfari (Nantlys)	A. D. H. Pennant, Esq.	5	1 5	178	27·4	27·46	173	128
D	Dyserth (Penlee)	L. Wilson, Esq.	5	1 0	260	...	24·76	190	131
D	RHYL (Sewage Works) (+A)	Medical Officer of Health	8	1 0	31	25·8	24·64	170	127
D	PRESTATYN	Clerk to the U.D.C.	5	1 0	18	...	23·67	153	121
	3.—SEVERN. Left Bank Tributaries. 7 sq. mi.								

§ Turf wall round gauge.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	DENBIGH. (Area, 668 sq. mi.)		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	1.—DEE. 278 sq. mi.								
	Glynceirog (Plas Nantyr)	C. B. C. Storey, Esq.	5	1	1500	49·7	53·12	...	...
D	Chirk Castle Gardens	late Col. R. Myddleton	5	1	630	...	39·41	175	140
D	Chirk (Old Vicarage)	Miss J. B. Jagger	5	1	350	...	36·56	189	142
D	Llangollen (Vivod)	Capt. W. Best	5	1	640	...	40·43	195	157
D	Ruabon (Trevor Hall)	E. Lloyd Edwards, Esq.	5	1	2 500	30·9	36·75	180	149
M	Wrexham W.W. (Mountain Lodge)	Engineer	8	0	9 1100	...	37·37	...	...
d	Wrexham W.W. (Ty Mawr Res.)	Engineer	5	0	9 805	*39·1*	36·89	202	146
D	Wrexham W.W. (Pack Saddle Res.)	Engineer	5	0	9 370	32·0	36·60	201	140
d	Wrexham W.W. (Cae Llwyd Res.)	Engineer	5	0	9 918	*40·5*	41·90	204	148
	§Wrexham W.W. (Erwan)	Engineer	5	1	0 1160	...	42·86	...	...
M	Wrexham W.W. (Minera)	Engineer	5	0	9 1400	...	40·12	...	...
D	Wrexham (Salisbury Park)	S. E. Ashmore, Esq.	5	1	0 283	...	30·82	196	136
D	WREXHAM (Grove Pk. C'nty Sch.)(+A)	S. E. Ashmore, Esq.	5	1	0 273	...	29·99	180	135
D	Pendinas Reservoir	Brymbo Water Co.	5	0	6 1249	...	44·69	208	173
D	Nantyffrith Reservoir	Brymbo Water Co.	5	0	6 1040	...	41·94	198	167
D	Llanfihangel-glyn-myfyr	E. G. Hutson, Esq., C.E.	5	1	0 898	43·7	47·98	236	177
D	R. Alwen (Alwen Filter House)	E. G. Hutson, Esq., C.E.	5	1	0 1100	46·4	51·03	235	183
D	R. Alwen (Alwen Dam)	E. G. Hutson, Esq., C.E.	5	1	0 1189	...	54·11	238	191
D	R. Alwen (Hafod-y-llan-isaf)	E. G. Hutson, Esq., C.E.	5	1	0 1180	...	52·00	237	189
W	Pentre Voelas (Nant Heilyn)	E. G. Hutson, Esq., C.E.	5	1	0 1225	49·2	57·51	...	...
M	Nantglyn (Pant-y-maen)	E. G. Hutson, Esq., C.E.	8	1	0 1320	50·3	58·71	...	...
M	Llyn Bran	E. G. Hutson, Esq., C.E.	8	1	0 1428	52·1	58·82	...	...
	2.—CLWYD & C. 267 sq. mi.								
D	Clawdd-newydd No. 2	E. G. Hutson, Esq., C.E.	5	1	0 983	37·5	44·70	200	174
W	Ruthin (Corwen Road)	E. G. Hutson, Esq., C.E.	5	1	0 234	...	32·61		...
	Llyn Aled	O. P. Cronshaw, Esq.	5	1	6 1200	...	56·70	...	...
D	Ruthin (Bwlch Tunnel)	E. G. Hutson, Esq., C.E.	5	1	0 908	...	33·09	188	163
	Llyn Aled (Moel-y-Bryniau)	O. P. Cronshaw, Esq.	5	1	4 1250	...	54·56	...	...
D	Llangynhafal (Plâs Drâw)	Major R. Bromhead	5	1	0 419	31·1	30·42	200	152
D	Denbigh (Mental Hospital)	Clerk & Steward	5	1	0 316	...	32·54	175	141
M	Llanefydd (Dolwen Res. S.)	O. P. Cronshaw, Esq.	5	1	0 600	...	35·36	...	...
M	Llanefydd (East)	O. P. Cronshaw, Esq.	5	1	0 570	...	35·43	...	...
D	Llanefydd (Plas Uchaf Res.)	O. P. Cronshaw, Esq.	5	1	0 485	...	34·69	192	148
D	Llanefydd (Glascoed Res.)	O. P. Cronshaw, Esq.	5	1	0 360	...	29·98	200	139
	St. Asaph (Wigfair)	Col. H. C. Ll. Howard, C.M.G.	5	0	10 250	...	29·37	...	...
D	Abergele (Sea Road)	Sydney Wilson, Esq.	5	1	0 35	28·4	27·81	180	128
D	COLWYN BAY (Eirias Park)	Borough Surveyor	5	1	0 118	...	30·66	182	141
	3.—CONWAY. 4 sq. mi.								
D	Pentre Voelas (Voelas Hall)	Col. J. C. Wynne Finch	5	1	3 640	53·2	64·23	209	192
D	Tal-y-Cafn (Bodnant)	Lord Aberconway	5	0	10 150	...	41·71	207	165
	4.—SEVERN. Left Bank Tributaries. 47 sq. mi.								
D	Llansilin (Penygwely Res.)	J. E. Taylor, Esq., C.E.	5	1	0 1115	...	43·64	206	153
	MERIONETH. (Area, 661 sq. mi.)								
	1.—DEE. 218 sq. mi.								
d	Llanuwchllyn (Plas-deon)	A. E. Morris, Esq.*	5	1	0 555	...	77·99	231	212
M	§Afon Lliw (Blaen Lliw Isaf)	J. Pugh, Esq.*	5	1	6 1279	90·6	100·40	...	...
d	Bala (Central School)	H. Lewis, Esq.	5	1	0 530	...	57·98	204	175
D	Bala (Tegid Street) (+A)	D. R. Roberts, Esq.*	5	1	3 537	46·9	58·45	218	179
d	Llandderfel (Palé Gardens)	Sir Henry Robertson	8	1	0 606	48·2	56·43	...	...

§ Turf wall round gauge. * *Per* River Dee Catchment Board.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with .01 in. or more	1948: Days with .04 in. or more
	MERIONETH—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—DEE—(*contd.*).								
M	§Trawsfynydd (Cwm Prysor)	British Electricity Authority	5	1 3	1300	...	89·70	...	...
M	Llyn Arenig Fach	J. Jones, Esq.	5	1 5	1511	86·0	(98·90)	...	...
d	Bala (Craig Nant)	J. Jones, Esq.*	5	1 0	1030	...	95·26	209	190
D	Corwen (Bryntirion)	Admiral Stapleton-Cotton	5	0 9	570	...	41·69	189	165
W	Derwen (Minffordd)	E. G. Hutson, Esq., C.E.	5	1 0	971	...	42·29	...	...
	2.—CLWYD. 7 sq. mi.								
	3.—GLASLYN. 92 sq. mi.								
M	Trawsfynydd (Cefn Gell-y-Cwm)	British Electricity Authority	5	1 0	665	...	82·30	...	...
M	Trawsfynydd (Darn Gae)	British Electricity Authority	5	1 0	950	71·3	87·95	...	...
d	Minffordd (Plas Penrhyn)	Mrs. H. W. Kitching	5	1 0	220	...	(57·28)	(194)	(177)
d	Pandyrddrwyryd (Main Dam)	British Electricity Authority	5	1 3	650	...	80·51	...	...
W	Tyddyn-y-Careg (Hendre Mur)	British Electricity Authority	5	1 3	660	...	81·75	...	...
D	Festiniog (Hafod Fawr)	Forestry Commission	8	1 4	1000	74·6	90·66	239	199
D	Blaenau Festiniog (Oakeley Q.)	J. Lloyd Humphreys, Esq.	5	1 0	1100	106·5	129·01	204	193
D	Blaenau Festiniog (Llechwedd Q.)	Messrs. J. W. Greaves & Son	5	1 0	700	101·1	126·03	218	201
	4.—MAWDDACH & C. 262 sq. mi.								
D	Towyn (Ynys-y-Maengwyn)	R. Corbett, Esq.	5	1 0	14	...	48·55	189	158
D	Towyn (Bronffynnon)	Dr. T. Henry Jones	5	1 0	180	...	49·21	211	156
	Dolgelley (Bronygader)	Lt.-Col. A. E. Jelf-Reveley	5	1 0	200	...	82·37	...	...
D	Dolgelley (Borthwnog)	Col. C. W. H. Crichton	5	1 0	5	...	64·17	213	182
d	Llanbedr (Llwyn)	A. Towers, Esq.	5	1 6	50	...	51·13	...	...
	5.—DOVEY. 82 sq. mi.								
D	Aberdovey (Plas Penhelig)	J. M. Howell, Esq., D.L.	5	1 0	150	...	47·83	224	173
D	Pennal (Llwyn-Celyn)	Lt.-Col. M. V. le P. Trench	5	1 0	30	...	65·17	224	183
d	Pennal (Talgarth Hall)	Owen D. Jones, Esq.	5	0 9	125	...	71·76	...	...
W	Aberangell (Gwynynd)	J. Norman Jones, Esq.	5	0 10	450	...	84·57	...	...
	6.—SEVERN. Left Bank Tributaries.								
	CARNARVON. (Area, 572 sq. mi.)								
	1.—BARDSEY ISLAND.								
	2.—CONWAY & C. 146 sq. mi.								
D	Capel Curig (Glyn Curig)	W. S. Parrott, Esq.	5	2 1	710	84·8	108·97	240	205
	Lake Llwgwy	British Electricity Authority	5	1 0	1820	100·1	116·29	...	...
	L. Cowlyd (Ffrith Garreg Wen) A.	Conway & Colwyn Bay W.Bd.	5	1 0	1168	92·0	104·49	...	...
	Lake Cowlyd (Cowlyd)	British Electricity Authority	5	1 0	1400	83·9	99·90	...	...
	Llanbedr-y-Cennin (Melynllyn)	J. A. Edwards, Esq., C.E.	5	1 0	2065	...	144·67	...	...
	Llanbedr-y-Cennin (Llyndulyn)	J. A. Edwards, Esq., C.E.	8	1 6	1632	102·7	120·95	...	...
	Llanbedr-y-Cennin (Plasdulyn)	J. A. Edwards, Esq., C.E.	8	1 0	509	...	60·96	...	...
d	Conway (Mussel Tanks)	Min. of Agric. & Fisheries	5	1 0	50	...	30·34	176	139
	Deganwy (Y Berlfa)	Willoughby Gardner, Esq.	5	1 0	35	...	29·41	...	
D	LLANDUDNO (Cricket Ground)	Medical Officer of Health	5	1 1	13	28·1	27·90	196	132

§ Turf wall round gauge. * *Per* River Dee Catchment Board.

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	CARNARVON—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	3.—MENAI STRAITS. 221 sq. mi.								
D	Edeyrn Tydweiliog (Cefnamwlch)	Col. W. H. Wynne Finch	5	1	300	...	44·95	194	157
D	Madryn Castle (Farm School)	The Principal	8	1	278	39·0	44·01	211	165
d	Edeyrn (Henfaes)	J. St. Bodfar Griffydd, Esq.	5	1	50	...	51·52	...	...
M	Nantlle (Dorothea Quarry)	Dorothea Slate Quarry Co.	5	2	300	...	71·55	...	...
	Llandwrog (Glynllivon Park)	Messrs. Owen Tudor & Sons	5	1	100	44·7	48·18	...	...
	Llandwrog (Glynllivon Nursery)	Messrs. Owen Tudor & Sons	5	1	90	...	47·68	...	...
D	Llandwrog (Glynllivon Garden)	Messrs. Owen Tudor & Sons	5	1	100	...	48·52	206	174
D	Bethesda (Penrhyn Quarries)	General Manager	8	1	527	*65·8*	63·59	174	160
D	Port Dinorwic (Vaynol)	Sir Michael Assheton-Smith	5	0	100	...	41·63	178	151
D	Bangor (Town Hall)	Water Engineer & Surveyor	8	1	50	...	39·36	198	170
D	Bangor (Penrhyn Castle Gardens)	Head Gardener	5	1	150	...	42·40	221	177
D	ABER (University College Farm)	Prof. R. G. White	5	1	60	...	42·18	212	164
d	Llanfairfechan (School House)	Surveyor U.D.C.	5	1	120	37·9	41·11	188	155
	4.—ERCH & C. 155 sq. mi.								
d	Abersoch (Groeslon)	Mrs. E. H. Hooton	8	0	11	200	...	43·61	...	...
D	Pwllheli (West End)	B. V. Howell, Esq.	8	1	3	9	...	44·53	187	154
	5.—GLASLYN. 50 sq. mi.								
D	Portmadoc (Wern)	Col. M. I. Williams-Ellis	5	1	0	20	...	62·85	196	174
D	Beddgelert (Primary School)	Headmaster	5	1	2	133	88·6	98·77	225	180
	Beddgelert (Hafod Ruffydd)	J. E. Evans, Esq.	5	1	0	490	...	101·53	...	...
W	Hafodtanygraig	Arnold White, Esq.	5	1	6	280	97·6	118·29	...	...
D	Snowdon (Cwm Dyli) No. 11	British Electricity Authority	5	1	0	310	*117·9*	158·00	234	221
D	Snowdon (Cwm Dyli, Old Rd.) 14(+A)	British Electricity Authority	5	0	10	325	...	152·35	234	219
M	Snowdon (Delta) No. 7	British Electricity Authority	5	1	0	1435	...	188·70	...	...
M	Snowdon (Glaslyn) No. 3	British Electricity Authority	5	0	8	2050	...	169·80?	...	...
M	Snowdon (Teryn) No. 1	British Electricity Authority	5	1	0	1080	...	181·70	...	...
d	Snowdon (Llydaw Intake) No. 10	British Electricity Authority	5	1	0	1480	...	172·93	...	...
W	Snowdon (L. Llydaw Copper Mine) 9	British Electricity Authority	5	1	5	1480	...	177·49	...	...
M	Snowdon (Grib Goch No. 8)	British Electricity Authority	5	1	3	2340	...	187·30	...	...
	ANGLESEY. (Area, 275 sq. mi.)								
D	Bryn-siencyn (Trefarthen)	Miss E. Meyrick	5	1	0	30	...	34·84	182	156
	Llangadwaladr (Bodorgan)	Sir George Meyrick, Bt.	5	1	0	100	37·5	37·69	189	147
	Plas Cadnant	Mr. Speddy	5	1	0	156	...	42·69	169	143
d	Llangefni (Glanaber)	M. Spencer Rogers, Esq., C.E.	8	1	2	70	...	42·19	190	154
d	Llansadwrn (Treffos)	C. Panton Vivian, Esq.	5	...	...	318	...	43·76	...	158
D	Llansadwrn (Gadlys Cottage)	A. E. C. Morgan, Esq., M.A.	5	1	0	340	...	39·99	259	161
d	Llangwyllog (Trescawen)	G. H. Pritchard-Rayner, Esq.	5	1	0	239	42·2	43·38	210	165
D	HOLYHEAD (VALLEY)	Meteorological Office	8	1	0	26	...	34·61	207	144
D	HOLYHEAD (Salt Island) (+A)	Meteorological Office	5	1	0	26	34·9	33·54	198	143
D	Llanerchymedd (Llwydiarth Esgob)	E. Thomas, Esq.	5	1	0	175	38·1	40·16	207	177
D	Marian Glas (Old Parciau)	M. R. Macnab, Esq.	5	1	0	150	...	44·87	205	168
	Amlwch (Dyffryn Adda)	Mr. Senogles	5	1	3	178	36·3	39·11	198	156
	ISLE OF MAN. (Area, 227 sq. mi.)								
D	Ronaldsway Airport	Meteorological Office	5	1	0	55	...	38·29	189	141
D	Ballagawne Reservoir	T. C. Greenfield, Esq., B.Sc.	5	1	0	365	...	44·87	193	153
W	Douglas (Cringle Reservoir)	T. C. Greenfield, Esq., B.Sc.	5	1	0	500	...	53·00	...	...
D	DOUGLAS (Borough Cemetery)	Borough Surveyor	5	1	0	284	41·2	53·94	194	156
D	Douglas (Clypse Reservoir, Onchan)	Water Engineer	8	1	0	440	43·9	54·60	216	160

DIVISION XI—MONMOUTH, WALES, AND THE ISLANDS—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1943: Rainfall	1943: Days with ·01 in. or more	1943: Days with ·04 in. or more
	ISLE OF MAN.—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
D	West Baldwin Reservoir ...	... Water Engineer	5	1 0	475	*55·7*	69·17	214	176
	Maughold Head	... Com'rs. of N. Lighthouses	5	0 6	230	...	46·23	191	151
D	Sulby Filter House	... T. C. Greenfield, Esq., B.Sc.	5	2 6	106	...	52·52	207	164
d	Ramsey (Town Hall)	... Town Surveyor	8	15 0	30	...	48·85	...	...
D	POINT OF AYRE	... Lightkeeper (M.O.)... ...	8	1 0	30	...	40·14	187	149
	CHANNEL ISLANDS. (Area, 76 sq. mi.)								
	JERSEY. 45 sq. mi.								
D	La Rocque (Sandhurst) ...	... H. C. Bisson, Esq.* ...	5	1 6	10	...	19·59	152	105
D	St. Saviour's (Petit Menage)	... G. J. Robin, Esq.	5	0 10	30	...	28·43	176	129
D	St. Heliers (Harbour Office) ...	... Harbour Master*	8	1 0	28	...	25·49	154	116
D	St. Heliers (St. Louis Observatory)	... Rev. Father C. Rey, S.J.* ...	8	1 5	180	*30·4*	27·57	167	127
D	St. Brelade (La Sergenté) ...	... W. Benest, Esq.*	5	1 4	194	...	28·30	177	132
D	St. Lawrence (Beaumont Marsh)	... R. Burrow, Esq.	5	1 0	60	...	31·34	160	133
D	Millbrook	... R. Burrow, Esq.	5	1 11	53	...	29·47	166	130
D	Mont au Prête (Belmont) ...	... W. H. L. Ewatt, Esq.* ...	5	1 7	250	...	31·29	178	133
D	St. Ouen's Manor	... Sir Guy Malet de Carteret*	...	... ...	...	...	27·94	180	129
D	Handois Reservoir	... R. Burrow, Esq.	5	1 0	272	...	32·68	187	138
D	Trinity (States Experimental Farm)	... States of Jersey*	5	0 10	340	...	31·73	157	138
D	St. Ouen (Vinchelez)	... F. le Maistre, Esq.* ...	5	0 11	260	...	28·06	172	129
	GUERNSEY. 25 sq. mi.								
D	Les Quartiers	... A. Higgs, Esq.	5	1 2	50	...	25·26	163	124

Scotland

DIVISION XII—SOUTHERN COUNTIES

	WIGTOWN. (Area, 488 sq. mi.)								
	1.—LOCH RYAN. 46 sq. mi.								
D	Castle Kennedy (Lochinch) ...	... Earl of Stair	8	1 0	85	...	49·45	206	172
	2.—WESTERN GALLOWAY. 44 sq. mi.								
D	Logan House	... Mr. R. McGuffog	8	1 3	80	37·3	46·20	256	176
	Corsewall	... Com'rs. of N. Lighthouses	5	1 6	48	...	39·90	176	153
	3.—LUCE BAY. 186 sq. mi.								
D	Port William (Monreith) ...	... G. Macnab, Esq.	5	1 0	145	38·5	42·71	243	190
W	Glenluce (Dunragit)	... Dept. of Agriculture ...	5	1 0	341	...	46·01	...	...
d	Glenluce (Camrie Reservoir) ...	... Dept. of Agriculture ...	5	1 2	323	...	54·65	...	...
	4.—CREE & WIGTOWN BAY. 212 sq. mi.								
d	Garlieston (Galloway House)...	... P. H. Fletcher, Esq. ...	5	0 11	30	39·1	51·81	196	180
D	Garlieston (Culderry)	... Capt. A. Walmsley ...	5	1 0	25	...	51·44	218	183
D	Kirkcowan (Craighlaw) ...	... Mrs. S. R. Fleming-Hamilton	5	1 0	300	48·3	55·40	238	208
D	Newton Stewart (Little Barraer)	... H. P. Hawthorn, Esq. ...	5	1 0	180	44·8	52·23	227	187
D	Newton Stewart (Duncree) ...	... Maj.-Gen. Sir Keith Stewart	5	1 0	125	...	51·85	225	193
	KIRKCUDBRIGHT. (Area, 902 sq. mi.)								
	1.—DOON. 16 sq. mi.								
	Rig of Millmore	... British Electricity Authority	5	1 0	1450	...	(94·47)	...	...

* *Per* R. Burrow, Esq.

DIVISION XII—SOUTHERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·01 in. or more
	KIRKCUDBRIGHT—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	2.—CREE & WIGTOWN BAY. 222 sq. mi.								
D	Borgue (Corseyard)	J. Douglas Brown, Esq.	5	1	20	39·8	45·46?	198	158
	Kirroughtree Forest	Forestry Commission	5	1	350	...	(56·18)	...	...
	3.—DEE. 377 sq. mi.								
D	TONGLAND Power Station	British Electricity Authority	5	1	69	...	59·25	201	180
D	Threave	Major A. F. Gordon	5	1	275	...	61·77	208	183
d	Mossdale (Hensol)	Marchioness of Ailsa	8	1	200	51·7	63·86	214	196
D	Laggan of Dee	British Electricity Authority	5	1	550	...	80·06	215	193
D	Clatteringshaws (Tunnel Intake)	British Electricity Authority	5	1	600	70·5	80·50	237	197
D	New Galloway (Wellwood)	W. McClure, Esq.	5	1	232	...	65·79	237	189
D	Craigencallie	British Electricity Authority	5	1	740	80·1	89·54	254	217
	Loch Dee	British Electricity Authority	5	1	800	81·5	90·26	...	...
D	Dalry (GLENLEE)	British Electricity Authority	5	1	181	...	61·61	227	192
D	Dalry (Garroch)	Arthur Young, Esq.	8	1	250	59·7	75·20	218	190
D	Dalry (Glendarroch)	Miss M. Barbour	5	2	190	54·5	59·68	219	190
D	Dalry (Forrest Lodge)	Sir John Wood, Bart.	5	1	500	63·2	84·09	268	214
D	Carsphairn (Fingland)	British Electricity Authority	5	1	940	51·1	64·99	260	200
D	Carsphairn (The Knowe)	J. A. Hunter, Esq.	8	2	550	...	68·13	224	197
D	Carsphairn (Cornharrow)	British Electricity Authority	5	1	810	53·6	67·65	230	199
d	Carsphairn (Moorbrock)	British Electricity Authority	5	0	1000	64·0	76·60	...	...
D	Carsphairn (Knockengarroch)	British Electricity Authority	5	1	740	58·2	67·41	244	201
D	Carsphairn Moor	British Electricity Authority	5	1	790	65·6	73·39	250	209
	4.—URR & C. 196 sq. mi.								
D	Auchencairn (Daffin Cottage)	Mr. J. H. Milligan	5	1	50	...	64·72	211	172
	Auchencairn (Torr House)	Thomas Ovens, Esq.	5	1	50	47·1	63·15	...	...
D	Castle Douglas (Corbieton)	Miss A. G. Biggar	5	0	175	...	55·94	208	177
D	Chipperkyle	Lt.-Col. J. A. Pollok Morris	5	1	310	...	59·25	199	176
	5.—NITH & C. 91 sq. mi.								
D	Lochrutton (Dumfries W.W.)	J. R. Whyte, Esq., C.E.	5	1	273	44·0	61·17	231	192
d	Carruchan	Mrs. Clark-Maxwell	5	1	73	...	56·27?	...	178
D	Glenkiln Reservoir	J. R. Whyte, Esq., C.E.	5	1	450	...	69·56	204	189
	DUMFRIES. (Area, 1,074 sq. mi.)								
	1.—CLYDE. Right Bank Tributaries. 5 sq. mi.								
	2.—URR. 6 sq. mi.								
	3.—NITH & C. 421 sq. mi.								
D	RUTHWELL (Comlongon Castle)	The Earl of Mansfield	5	1	95	35·5	48·04	215	162
D	§DUMFRIES (Crichton Royal Inst.)	Physician Superintendent	5	1	140	39·1	54·62	225	178
D	Blackwood	T. H. Kennedy, Esq.	5	1	6	100	41·1	56·27	225
M	Corsehill	County Engineer	...	...	...	1850	...	(112·28)	...
	§Whiteside Hill	County Engineer	5	1	0	1680	...	94·76	...
	Euchanhead	County Engineer	5	1	0	1370	...	102·42	...
D	Euchan Bank	County Engineer	5	1	0	1080	...	84·45	250
D	Durrisdeer (Drumlanrig)	W. E. Bourne, Esq.	5	0	9	191	43·6	60·78	249
	4.—ANNAN. 367 sq. mi.								
D	Dalton (Kirkwood)	Captain J. Steel	5	1	8	260	...	56·16	208
d	Moffat (Auchen Castle)	Sir W. R. Younger, Bart.	5	1	0	480	...	69·08?	...

§ Turf wall round gauge.

DIVISION XII—SOUTHERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	DUMFRIES—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	5.—ESK. 275 sq. mi.								
D	Eaglesfield (Springkell Gardens)	Col. Sir E. A. Johnson-Ferguson, Bt.	5	1	0 303	41·3	56·07	220	181
D	Canonbie (Irvine House)	Sir J. H. Milne Home	5	0	9 200	46·5	58·62	215	180
D	Langholm (Arkleton Gardens)	Mr. J. B. Robertson	5	1	0 445	...	66·96	228	188
D	Eskdalemuir (Sandyford)	County Engineer	5	1	0 728	...	66·12	243	195
M	§Eskdalemuir (Cairn Knowe)	County Engineer	5	1	0 1107	...	78·47	...	...
M	Eskdalemuir (Blackeskhead)	County Engineer	5	1	0 797	...	73·59	...	...
M	§Eskdalemuir (Peat Rig)	County Engineer	5	1	0 1251	...	83·15	...	...
M	Eskdalemuir (Garwaldshiels)	County Engineer	5	1	0 941	...	73·60	...	...
M	§Eskdalemuir (Monkingshaw Knowe)	County Engineer	5	1	0 1054	...	81·73	...	...
D	Eskdalemuir (Johnstone House)	Lady Lethem	5	1	0 650	...	65·72	216	192
M	§Eskdalemuir (Jock's Shoulder)	County Engineer	5	1	0 1757	...	83·37	...	...
D	Eskdalemuir (Kiddamhill)	County Engineer	5	1	0 905	...	74·87	233	197
D	ESKDALEMUIR Observatory (+A)	Meteorological Office	8	1	4 794	56·3	73·73	229	192
M	Eskdalemuir (Cauld Law Grain)	County Engineer	5	1	0 1302	...	87·44	...	...
M	§Eskdalemuir (Loch Fell)	County Engineer	5	1	0 2228	...	99·83	...	...
M	Eskdalemuir (Pengrain)	County Engineer	5	1	0 1118	...	82·10	...	...
	ROXBURGH. (Area, 666 sq. mi.)								
	1.—NORTH TYNE. 6 sq. mi.								
	2.—TWEED. LOWER. Right Bank Tributaries. 57 sq. mi.								
D	Yetholm (Old Graden)	P. S. Short, Esq.	5	1	0 500	...	36·07	215	145
	3.—TWEED. Teviot & c. 431 sq. mi.								
D	Hawick (Westerdykes)	C. W. Grieve, Esq.	5	1	1 320	...	38·19	197	151
D	Denholm (Spital Tower)	J. G. Leadbetter, Esq.	5	0	6 425	32·7	36·88	219	159
d	Jedburgh (Jedneuk)	Capt. J. S. Aikman, M.C.	5	1	0 268	26·3	31·34	...	137
D	Crailing	Major J. A. Paton	5	1	0 190	27·6	31·39	213	144
d	Ancrum (Monteviot)	Capt. J. S. Aikman, M.C.	5	1	0 210	29·8	34·25	...	...
D	Melrose (Bowden, Kippilaw)	Mr. W. A. Henderson	5	1	1 500	...	36·54	196	154
D	St. Boswells (Hawthornden)	Miss B. Danford	5	1	0 300	...	35·50	189	153
	4.—TWEED. Ettrick & c. 10 sq. mi.								
D	Melrose (Dingleton Hospital)	T. C. Mitchell, Esq.	5	1	0 480	30·8	34·26	208	145
	5.—TWEED. Gala. 6 sq. mi.								
	6.—TWEED. Leader & c. 25 sq. mi.								
	7.—TWEED. LOWER. Left Bank Tributaries. 25 sq. mi.								
D	KELSO (FLOORS)	Thos. Hall, Esq.	5	1	0 195	26·0	36·56	179	151
D	Kelso (Hendersyde Park)	The Rt. Hon. Countess Peel	5	1	1 180	...	35·24	210	143
D	LAUDER (THE ROAN)	H. H. Cowan, Esq.	5	1	0 550	...	37·25	198	141
	8.—ESK. 106 sq. mi.								
	Newcastleton Forest	Forestry Commission	5	1	0 800	48·5	59·18	...	...

§ Turf wall round gauge.

DIVISION XIII—SOUTH-EASTERN COUNTIES

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
			in.	*ft.*	*in.* *t.*	*in.*	*in.*		
	SELKIRK. (Area, 268 sq. mi.)								
	1.—TWEED. Teviot & c. 34 sq. mi.								
	2.—TWEED. Ettrick & c. 192 sq. mi.								
D	Ettrick Manse	Rev. Dr. W. Addison ...	5	1	2 787	55·6	68·32	221	186
M	Edinburgh W.W. (Megget Head) ...	Edinburgh Water Engineer	8	1	6 1496	...	86·42	...	...
	3.—TWEED. UPPER. Right Bank Tributaries. 17 sq. mi.								
	4.—TWEED. UPPER. Left Bank Tributaries. 19 sq. mi.								
D	Caddonfoot (Fairnilee)	Mr. A. Bruce	5	1	0 450	32·5	41·64	217	173
D	Galashiels (The Peel, Clovenfords) ...	Mr. Robert Orr	5	1	0 450	35·5	42·10	194	171
	5.—TWEED. Gala. 6 sq. mi.								
	PEEBLES. (Area, 348 sq. mi.)								
	1.—TWEED. UPPER. Right Bank Tributaries. 127 sq. mi.								
M	Edin W.W. (Ravenscraig) ...No. 3	Edinburgh Water Engineer	8	1	6 2258	81·1	119·78?	...	...
M	§Edin. W.W. (Ballaman Hill)	Edinburgh Water Engineer	5	1	6 1700	...	74·48	...	...
M	Edin. W.W. (Gameshope Loch) No. 2	Edinburgh Water Engineer	5	1	0 1900	...	97·34	...	...
M	Edin. W.W. (Garelot Dod)	Edinburgh Water Engineer	5	1	6 2200	...	98·34	...	...
M	§Edin W.W. (Loch Craig Head) No. 2	Edinburgh Water Engineer	8	1	6 2627	73·1	91·45	...	...
M	Edin. W.W. (Gameshope Farm) No. 5	Edinburgh Water Engineer	8	1	6 1538	...	94·19	...	...
M	Edin. W.W. (Fruid Farm)	Edinburgh Water Engineer	5	1	6 1020	...	64·20	...	...
M	§Edin. W.W. (Shiel Hope)	Edinburgh Water Engineer	5	1	6 1300	...	64·36	...	...
M	Edin. W.W. (Hawkshaw)	Edinburgh Water Engineer	5	1	6 1100	...	62·20	...	...
M	Edin. W.W. (Talla Linns Foot) No. 6	Edinburgh Water Engineer	8	1	6 966	55·2	71·32	...	...
M	Edin. W.W. (Upper Menzion) ...	Edinburgh Water Engineer	5	1	6 1020	...	54·80	...	...
M	Edin. W.W. (Nether Garelet) No. 2	Edinburgh Water Engineer	5	1	0 1700	...	75·46	...	...
M	§Edin. W.W. (The Rig)	Edinburgh Water Engineer	5	1	6 1150	...	59·60	...	...
M	§Edin. W.W. (Quarter Hill) ...No. 7	Edinburgh Water Engineer	8	1	0 1196	46·4	59·18	..	...
D	Edin. W.W. (Victoria Lodge) No. 8	Edinburgh Water Engineer	5	1	3 900	50·0	56·70	241	190
	2.—TWEED. UPPER. Left Bank Tributaries. 192 sq. mi.								
D	Stobo Castle	H. Hughes, Esq.	5	1	0 594	34·9	47·16	248	177
D	PEEBLES (Kingsmeadows)	Mr. D. C. Eaglesham ...	5	1	0 525	...	39·42	206	159
D	Peebles (Forester Training School) ...	Forestry Commission ...	5	1	0 540	...	37·22	206	161
D	West Linton (Woodlea Cottage) ...	Edinburgh Water Engineer	5	0	11 801	35·7	45·38	237	179
D	WEST LINTON (Cairnton)	Dr. R. Graham Yooll ...	5	1	0 820	38·6	49·16	228	167
D	West Linton (Baddingsgill Res.) ...	T. Aitken, Esq.	8	1	0 1100	44·6	56·72	246	192
	3.—ESK. 23 sq. mi.								
D	Eddlestone (Portmore Reservoir) ...	Edinburgh Water Engineer	5	0	6 1000	35·2	43·85	240	166
D	Carlops (North Esk Reservoir) ...	J. Gilmour, Esq.	5	1	0 1150	39·5	51·55	222	184
	4.—CLYDE. Right Bank Tributaries. 6 sq. mi.								
	BERWICK. (Area, 457 sq. mi.)								
	1.—TWEED. Gala. 6 sq. mi.								
	2.—TWEED. Leader. 92 sq. mi.								
D	Earlston (Cowdenknowes)	T. A. Mole, Esq.	5	1	3 300	28·8	35·47	175	143

§ Turf wall round gauge.

DIVISION XIII—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	BERWICK—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	3.—TWEED. LOWER. Left Bank Tributaries. 115 sq. mi.								
D	Coldstream (Lochton)	Mrs. Aitchison	5	1 0	150	25·9	32·35	193	140
D	Swinton House	(+A) Rev. A. E. Swinton, M.A.	5	1 0	200	26·4	34·18	192	137
d	Paxton (Tweedhill)	C. H. Brackenbury, Esq. ...	5	1 0	50	...	35·51	...	...
	4.—TWEED. Whiteadder. 164 sq. mi.								
D	MARCHMONT House	Capt. J. H. F. McEwen, M.P.	5	1 0	498	32·2	37·43	202	142
D	Duns (Oxendean)	A. C. Fraser, Esq.	5	1 0	600	...	40·03	188	151
D	Duns Castle	Mrs. F. S. Hay	5	1 0	500	30·8	39·98	189	148
D	Duns (Manderston)	Mr. P. Dalgleish	5	2 6	353	30·7	40·39	206	142
D	Longformacus (Whitchester)	Mrs. Laudale	5	1 0	838	...	39·42	180	137
	5.—EAST COAST STREAMS. 80 sq. mi.								
D	ST. ABB'S HEAD (Shore Signal Stn.)...	Chief Officer (M.O.) ...	8	1 0	270	...	25·88	153	111
d	Cockburnspath (Redheugh)	T. S. Dykes, Esq.	5	1 0	288	...	34·11	...	...
	EAST LOTHIAN. (Area, 267 sq. mi.)								
	1.—TWEED. Leader. 1 sq. mi.								
	2.—TWEED. Whiteadder. 35 sq. mi.								
	3.—EAST COAST STREAMS. 69 sq. mi.								
W	Garvald (Donnolly Reservoir) ...	Adam Robson, Esq. ...	5	1 0	570	32·8	39·82	...	...
w	Garvald (Thorter Reservoir)	Adam Robson, Esq. ...	5	1 0	725	...	41·31	...	...
	4.—TYNE & C. 114 sq. mi.								
D	Lammermuir H. (West Hopes) ...	Adam Robson, Esq. ...	5	1 0	736	34·4	45·47	169	140
W	Lammermuir H. (Stobshiel Res.) B ...	Adam Robson, Esq. ...	5	1 0	950	33·0	39·56	...	...
	5.—FIRTH OF FORTH. 48 sq. mi.								
D	East Fortune Sanatorium	The Clerk of Works ...	5	1 4	101	23·5	30·66	166	123
D	Aberlady (Ards Place)	Mrs. Hemingway	5	1 0	40	...	29·22	193	136
D	North Berwick Reservoir	A. Robertson, Esq., C.E. ...	5	1 0	150	25·4	30·53	191	125
D	NORTH BERWICK (Gas Works) ...	Town Council	5	1 0	118	24·1	30·17	164	131
	6.—INSULAR.								
	MIDLOTHIAN. (Area, 369 sq. mi.)								
	1.—TWEED. Gala. 68 sq. mi.								
D	Stow (Cragdale)	A. H. Fairgrieve, Esq. ...	5	0 6	642	33·0	45·45	212	164
	2.—TYNE. 28 sq. mi.								
	3.—FIRTH OF FORTH. 3 sq. mi.								
	4.—ESK. 116 sq. mi.								
M	Moorfoot Hills (Bowbate) *new g.* ...	Edinburgh Water Engineer	5	1 0	1260	...	49·92	...	...
D	Moorfoot Hills (Gladhouse Res.) ...	Edinburgh Water Engineer	5	0 6	915	35·3	42·11	233	169
D	Moorfoot Hills (Rosebery)	Edinburgh Water Engineer	5	0 6	750	32·1	38·63	212	162
D	PENICUIK	Dr. J. T. Baldwin	5	1 0	620	...	44·55	217	169
D	Gorebridge	W. Esson, Esq.	5	1 0	560	29·3	35·61	170	137
D	Pentland Hills (Martyrs Cross) ...	Edinburgh Water Engineer	5	1 0	750	35·5	46·17	232	171
d	Rosewell	R. Wadsworth, Esq. ...	5	1 0	480	...	39·87	198	153

DIVISION XIII—SOUTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	MIDLOTHIAN—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	4.—ESK—(*contd.*).								
D	Pentland Hills (Loganlea)	Edinburgh Water Engineer	5	1	811	38·5	48·79	211	162
D	Pentland Hills (Glencorse Filters) ...	Edinburgh Water Engineer	5	0	638	35·0	45·52	212	157
D	Pentland Hills (Glen Cottage) ...	Edinburgh Water Engineer	5	1	739	35·2	48·86	212	163
D	Newbattle (Public School)	C. D. Walinck, Esq., M.A.	5	1	300	25·7	36·34	176	142
	5.—ALMOND & C. 153 sq. mi.								
D	Pentland Hills (Crosswood)	Edinburgh Water Engineer	5	0	950	39·5	50·12	244	184
D	Pateshill Reservoir	Water Superintendent ...	5	1	900	...	51·34	247	188
D	Pentland Hills (Harperrig)	Edinburgh Water Engineer	5	1	900	38·8	49·50	229	164
D	Pentland Hills (Morton)	Messrs. J. & A. Leslie & Reid	5	1	749	37·4	48·34	225	178
d	West Calder (Addiewell)	Scottish Oils, Ltd.	12	21	620	35·7	53·16	213	168
D	BOGHALL ... ... (+A)	Edin. & E. of S. Coll. of Ag.	8	1	639	33·1	44·00	223	161
D	BALERNO (Shothead)	Inst. of Animal Genetics ...	5	1	750	...	45·99	225	167
D	Pentland Hills (Clubbiedean Res.) ...	Edinburgh Water Engineer	5	1	773	30·4	38·87	213	158
D	Fairmilehead (Frogston Road) ...	J. Aitchison, Esq.	5	1	600	...	41·18	214	159
D	Fairmilehead (Waterworks)	Edinburgh Water Engineer	5	1	590	30·8	41·34	201	154
D	Liberton (Alnwick Hill)	Edinburgh Water Engineer	5	1	407	28·5	36·11	199	140
M	Liberton (Hawkhead Grove)	G. M. Stuart, Esq., M.B.E.	5	1	400	...	37·78	...	...
D	Colinton (Firhill Tank)	Edinburgh Water Engineer	5	0	10 412	29·0	41·74?	229	158
D	Edinburgh (Hermitage of Braid) ...	J. T. Jeffrey, Esq.	5	1	0 300	...	39·03	201	149
d	Edinburgh (Craiglockhart)	I. C. Hedge, Esq.	5	1	0 295	...	41·25	211	157
D	EDINBURGH (BLACKFORD HILL) ...	Astronomer Royal for Scot.	8	1	0 441	26·3	36·37	217	145
d	Edinburgh (Napier Road)	late Mrs. H. G. Harrison ...	5	1	0 300	26·2	37·77	208	163
d	Edinburgh (The Academy)	Dr. W. P. D. Wightman ...	5	1	0 70	25·9	32·81	...	...
d	Edinburgh (Astley Ainslie Inst.) ...	Medical Superintendent ...	5	1	0 270	27·7	37·49	...	145
D	EDINBURGH (ROYAL BOTANIC GDN.) ...	Prof. Sir W. Wright-Smith	5	1	0 74	26·5	34·66	198	149
D	DAVIDSON'S MAINS (Easter Park) ...	J. W. Younger, Esq. ...	5	1	0 200	...	36·91	218	156
d	Edinburgh (Granton)	H. Macpherson, Esq. ...	5	0	10 70	...	34·46	...	139
	6.—CLYDE. Right Bank Tributaries. 1 sq. mi.								
	WEST LOTHIAN. (Area, 120 sq. mi.)								
	1.—ALMOND & C. 60 sq. mi.								
M	Uphall ... ... No. 7	Edinburgh Water Engineer	8	1	4 646	...	48·85	...	...
M	Uphall ... ... No. 8	Edinburgh Water Engineer	8	1	4 577	32·7	46·25	...	...
d	Uphall (Middleton Hall)	Scottish Oils, Ltd.	8	1	0 350	31·4	45·71	...	...
D	Uphall (Houstoun House)	The Hon. Mrs. Lindsay ...	5	1	0 420	...	45·12	210	175
	Winchburgh (Hopetoun Oil Works) ...	Scottish Oils, Ltd.	8	2	2 327	33·3	46·06	...	...
D	Dalmeny House	The Earl of Rosebery ...	5	0	6 20	25·9	39·14	201	161
	2.—FORTH. Right Bank Tributaries. 59 sq. mi.								
D	Blackridge (Bedlormie)	D. Tennant, Esq.	5	1	0 720	...	56·61	239	191
D	‖Armadale (Stonerigg Filters)	Water Superintendent ...	5	1	0 620	...	47·77	239	175
D	Bathgate (Northbank Filters) ...	J. Spalding, Esq.	5	0	9 640	33·2	50·66	234	174
D	Torpichen (Lochcote)	Wm. Beattie, Esq.	5	0	9 550	33·5	49·63	230	180
M	Carribber Reservoir	Wm. Beattie, Esq.	5	0	9 350	33·1	48·14	...	...
W	Linlithgow (Cockleroi Res.)	Burgh Surveyor	5	1	0 587	...	50·25	...	...
D	Linlithgow (Preston House)	Head Gardener	5	1	0 380	32·6	50·14	248	183
D	Linlithgow (Grange)	Col. H. M. Cadell	5	1	0 440	30·2	42·27	226	163
	3.—CLYDE. Right Bank Tributarles. 1 sq. mi.								

‖ Gauge over-exposed.

DIVISION XIV—SOUTH-WESTERN COUNTIES

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	LANARK. (Area, 881 sq. mi.)			*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—TWEED. UPPER. Left Bank Tributaries. 20 sq. mi.									
	2.—ALMOND. 14 sq. mi.									
	3.—FORTH. Right Bank Tributaries. 9 sq. mi.									
	4.—CLYDE. Right Bank Tributaries. 378 sq. mi.									
D	Crawford (Camps Reservoir) ...	(+A)	M. S. Neilson, Esq., C.E.	5	0 10	969	44·0	56·31	237	188
D	Biggar (Huntfield)		Miss Dunlop	5	1 0	900	31·5	44·19	226	171
D	Lamington House		Rt. Hon. Lord Lamington	5	1 0	730	36·9	50·65	219	183
D	Carluke (Coldstream Reservoir) ...		J. Bissett Scott, Esq., C.E....	5	1 0	800	...	44·59	222	178
	Carluke		J. Barr, Esq....	5	0 8	630	...	41·86	...	...
D	CARLUKE (Law Junction)		Dr. W. A. Galbraith ...	5	1 0	534	...	41·86	216	173
W	Carluke (Springfield Reservoir) ...		J Bissett Scott, Esq., C.E.,...	5	1 0	860	39·5	45·23	...	...
D	Carluke (Gair Reservoir)		J. Bissett Scott, Esq., C.E....	5	1 0	665	34·9	40·12	208	165
	Wishaw (Coronation Street)		A. Hinshelwood, Esq. ...	5	1 3	510	...	43·23	...	...
D	Shotts Reservoir		M. S. Neilson, Esq. C.E. ...	5	1 0	812	...	50·50	237	174
D	Glasgow (Rutherglen)		F. C. Thomson, Esq. ...	5	1 0	100	...	54·07	242	187
D	Glasgow (Tollcross Park)		G. H. Garside, Esq. ...	5	1 0	84	37·4	50·51	218	182
D	Glasgow Green		G. H. Garside, Esq. ...	5	1 0	35	36·0	52·43	224	191
D	Glasgow (Alexandra Park)		G. H. Garside, Esq. ...	5	1 0	141	36·0	50·51	229	189
D	Glasgow (Botanic Gardens)		G. H. Garside, Esq. ...	5	1 0	110	34·7	48·98	218	190
D	Glasgow (Kelvingrove Park)		G. H. Garside, Esq. ...	5	1 0	48	36·1	51·17	217	191
D	Glasgow (Victoria Park)		G. H. Garside, Esq. ...	5	1 0	30	36·1	51·19	214	186
D	Glasgow (Ruchill Park)		G. H. Garside, Esq. ...	5	1 0	222	36·0	49·42	228	189
D	GLASGOW (SPRINGBURN PARK) ...		G. H. Garside, Esq. ...	5	0 6	351	36·9	53·33	233	202
M	Clarkston (Roughrigg Reservoir) ...		D. T. Brown, Esq., C.E. ...	5	1 0	664	35·8	51·31	...	...
D	Coatbridge (West End Park)		S. Lauder, Esq.	5	1 0	240	...	42·86	230	173
D	Coatbridge (Whifflet Public Park) ...		S. Lauder, Esq.	5	1 0	295	...	47·58	244	207
D	Coatbridge (Dunbeth Public Park) ...		S. Lauder, Esq.	5	1 0	325	...	49·71	220	186
D	Airdrie (Broomknoll Street)		D. T. Brown, Esq., C.E. ...	5	1 0	402	35·0	47·98	211	172
D	Gartcosh (Gartloch Hospital) ...		Mr. Donald McMillan ...	5	1 0	291	37·8	52·14	227	193
	5.—CLYDE. Left Bank Tributaries. 448 sq. mi.									
M	Elvanfoot (Potrenick Burn)		J. Bissett Scott, Esq., C.E....	5	1 0	1004	61·5	77·74	...	...
D	Elvanfoot (Peden Res.)		J. Bissett Scott, Esq., C.E....	5	1 0	964	65·1	78·90	219	199
D	Douglas (Monksfoot)		T. Steele, Esq.	5	1 0	780	...	59·23	229	206
D	Douglas (Newmains)		The Earl of Home	8	1 4	780	...	48·75?	228	196
D	Strathaven (Glengavel Reservoir) ...		M. S. Neilson, Esq., C.E. ...	5	1 0	839	47·9	72·16	237	207
D	Strathaven (Dunside Res.) *new site* ...		M. S. Neilson, Esq., C.E. ...	5	1 0	1002	46·3	70·03	253	208
D	Strathaven (Kype Res.)		George Allison, Esq. ...	5	1 0	941	46·6	65·69?	231	202
D	Stonehouse (Sanatorium)		Andrew Riddell, Esq. ...	5	0 7	526	36·6	51·91	241	180
D	Stonehouse (Glassford Filters) ...		M. S. Neilson, Esq., C.E. ...	5	0 9	775	39·8	60·78	233	190
D	Hamilton W.W. (Townhill)		George Allison, Esq. ...	5	1 0	430	35·6	49·39	214	173
D	Hamilton (Woodview Terrace) ...		W. Fletcher, Esq.	5	1 4	200	...	47·07	203	164
D	Hamilton (Woodlea)		Robert Frame, Esq. ...	5	1 4	192	...	47·73	217	176
D	Carmunnock (Carnbooth)		R. Robertson, Esq., LL.D...	5	1 0	365	39·8	56·69	216	180
D	Cambuslang (Greenlees Filters) ...		M. S. Neilson, Esq., C.E. ...	5	1 0	322	36·3	47·01	224	176
D	Glasgow (Bellahouston Park) ...		G. H. Garside, Esq. ...	5	1 0	80	34·6	51·01	208	187
D	Glasgow (Elder Park)		G. H. Garside, Esq. ...	5	1 0	25	37·0	54·10	217	188
	6.—IRVINE. 2 sq. mi.									
	7.—AYR. 1 sq. mi.									
	8.—NITH. 2 sq. mi.									
	9.—ANNAN. 7 sq. mi.									

DIVISION XIV—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	AYR. (Area, 1,135 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—CLYDE. Left Bank Tributaries. 7 sq. mi.								
	2.—FIRTH OF CLYDE. 60 sq. mi.								
D	§Ardrossan (Mill Glen Filters)	H. R. Seaton, Esq.	5	1 0	167	...	57·95	224	189
D	Stevenston (Greenhead Filters)	W. G. Guild, Esq.	5	1 0	186	41·6	56·29	215	185
	Ardrossan (Busbie Reservoir)	H. R. Seaton, Esq.	5	1 0	370	...	62·65	...	...
	West Kilbride (Crosbie Reservoir)	T. W. Leslie, Esq.	5	1 0	400	...	57·85	...	...
D	West Kilbride (Hunterston)	Lt.-Gen. Sir A. Hunter-Weston, K.C.B.	5	1 0	40	42·4	59·71	224	188
	Fairlie (Water Works)	T. W. Leslie, Esq.	5	1 0	270	...	70·01	...	...
D	Largs (Stevenson Institute)	G. Arkieson, Esq.	5	1 0	20	...	65·19	215	194
D	Largs (Woodbank)	A. Simpson, Esq.	5	1 0	25	...	65·19	232	197
D	Largs (South Routenburn)	A. K. Gordon, Esq.	5	1 0	150	...	60·58	224	204
D	Largs (Middleton Filters)	G. Arkieson, Esq.	5	1 0	230	52·0	69·72	228	201
	Shaws W.W. (Knockencorsan)	J. MacAlister, Esq., C.E.	5	1 0	1040	...	88·50	...	...
	Shaws W.W. (Largs Road)	J. MacAlister, Esq., C.E.	5	1 0	910	*57·0*	87·10	...	...
	3.—IRVINE & C. 296 sq. mi.								
D	PRESTWICK	Burgh Surveyor	5	1 0	17	31·0	42·52	200	164
D	PRESTWICK AIRPORT (+A)	Meteorological Office	5	1 0	30	33·6	44·79	203	165
D	Prestwick (Ladykirk Filters)	Burgh Surveyor	6	1 0	185	...	46·18	201	171
d	Symington	T. McMillan, Esq., M.A.	5	1 0	300	...	53·24	223	185
D	Treesbank	Mr. A. B. Stewart	5	1 0	150	...	60·76	230	187
D	Irvine (Gailes)	A. Forrest, Esq.	5	1 0	12	35·9	48·26	210	173
D	Galston (Cessnock Road)	Burgh Surveyor	5	1 0	215	...	64·34	204	181
d	Newmilns (Lanfine)	W. Logan, Esq.	5	1 6	500	43·4	65·59?	...	...
D	Templetonburn	F. C. Howie, Esq.	5	1 0	140	...	57·76	226	195
D	Darvel (Kirkland Park)	R. P. Boyd, Esq.	5	0 6	419	...	60·89	231	194
D	KILMARNOCK (Kay Park) (+A)	W. N. McCall, Esq.	5	4 0	132	...	58·64	223	192
D	Kilmarnock (Dean Castle)	Mr. W. R. Culton	5	1 0	190	40·7	61·79	232	202
D	Irvine (Cuninghame Home)	Governor	5	1 0	24	...	53·77	202	182
D	Kilmarnock (North Craig Res.)	W. N. McCall, Esq.	5	1 0	319	41·2	63·75	233	200
d	Montgreenan Gardens	Capt. C. B. G. Coltart	5	0 9	180	...	58·72	...	...
	Fenwick (Whiteleehill)	W. N. McCall, Esq.	5	1 0	915	48·6	69·39	...	...
D	Fenwick (Hareshawmuir)	E. Richmond Paton, Esq.	5	1 0	600	48·5	65·55	232	199
D	Fenwick (Amlaird Filters)	W. N. McCall, Esq.	5	1 0	590	43·3	69·61	237	205
	Craigendunton Reservoir	W. N. McCall, Esq.	5	1 0	805	48·9	73·35	...	...
	Loch Goin Reservoir	W. N. McCall, Esq.	5	1 0	865	49·4	78·86	...	...
D	Blair Gardens	W. N. McCall, Esq.	5	1 0	155	...	65·86	224	197
	Moor Farm	W. N. McCall, Esq.	5	1 0	810	...	68·63	...	...
D	Stewarton Filters	C. Mc.L. Bodie, Esq.	5	1 6	515	...	69·57	232	203
D	Dalry (Munnoch Reservoir)	W. G. Guild, Esq.	5	1 0	325	47·9	68·73	231	194
D	Dalry (Caaf Reservoir)	W. G. Guild, Esq.	5	1 3	515	53·2	76·14	229	202
M	Dalry (Drum Burn)	W. G. Guild, Esq.	5	0 11	744	...	73·28	...	...
M	Dalry (South Knockendon)	W. G. Guild, Esq.	5	1 1	704	...	72·55	...	...
	Dalry (Knockendon)	W. G. Guild, Esq.	5	1 0	750	...	76·40	...	...
M	Dalry (South Bradshaw)	W. G. Guild, Esq.	5	1 1	946	...	75·35	...	...
M	Dalry (Haining)	J. A. McGregor, Esq., C.E.	5	1 0	895	...	86·42	...	...
	Dalry (Camphill Reservoir) (+A)	J. A. McGregor, Esq., C.E.	5	1 0	611	61·2	87·64	...	...
M	Dalry (Catburn)	J. A. McGregor, Esq., C.E.	5	1 0	1013	...	92·97	...	...
M	Dalry (Whitehill)	J. A. McGregor, Esq., C.E.	5	1 0	628	...	88·47	...	...
M	Dalry (Blairpark)	J. A. McGregor, Esq., C.E.	5	1 0	722	...	90·62	...	...
D	Beith (Filter Station)	T. W. Leslie, Esq.	5	1 0	412	53·7	73·11	226	197
D	Kilbirnie (Hole House Filters)	T. W. Leslie, Esq.	5	1 0	377	68·0	86·65	253	214
M	Kilbirnie (Pundeavon Res.) *new gauge*	T. W. Leslie, Esq.	5	1 0	898	...	104·26	...	...

§ Turf wall round gauge.

DIVISION XIV—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	AYR.—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	4.—AYR. 222 sq. mi.								
D	Ayr Cemetery	... Thomas O'Beirne, Esq., C.E.	5	1 0	40	34·8	41·65	194	161
D	AUCHINCRUIVE	... W. Scotland Agric. College	8	1 0	147	39·0	45·60	203	167
D	Muirkirk (Kaimshill)	... A. B. Thomson, Esq. ...	5	1 6	750	47·8	57·83?	237	204
d	Mauchline (Auchenfail) ...	... Miss M. T. Stephen ...	5	0 9	380	...	54·52	...	...
D	Mauchline (Hillhead Tank) ...	... T. W. Leslie, Esq.	5	1 0	564	42·8	56·69	205	193
	5.—DOON. 119 sq. mi.								
	Tunskeen	... British Electricity Authority	5	1 0	1010	76·2	(91·79)	...	...
	Loch Recawr	... Thomas O'Beirne, Esq., C.E.	5	1 0	933	...	82·80	...	...
D	Dalmellington (Mossdale Filters)	... T. W. Leslie, Esq.	5	1 0	752	48·6	62·60	248	194
D	Dunaskin (Ardoon)	... Bairds & Dalmellington Ltd.	5	1 0	686	47·8	59·93	237	202
D	Patna (Kerse Filters)	... T. W. Leslie, Esq.	5	1 0	741	...	57·25	246	192
D	Maybole (Otterden)	... Mr. D. Bremner	5	1 3	314	43·2	53·29	230	186
	Dalrymple (Knockjarder W.W.)	... Thomas O'Beirne, Esq., C.E.	5	1 0	287	42·6	49·48	...	...
D	Ayr (Doonholm)	... Col. N. Kennedy, C.B.E. ...	5	1 0	90	38·8	50·63	210	178
D	Alloway (Doonside)	... Col. F. C. Dunlop	5	1 2	99	...	53·33	204	172
	6.—CULZEAN BAY & C. 32 sq. mi.								
D	TURNBERRY	... J. C. Ross, Esq.	5	1 0	63	...	44·36	200	178
D	Maybole (Culzean Castle Gardens)	... Mr. W. J. Orr	8	1 3	138	36·4	50·76	215	178
	7.—GIRVAN. 105 sq. mi.								
D	Girvan (Penwhapple Res.) ...	... Burgh Surveyor	5	1 0	662	...	63·98	224	188
w	Loch Bradan	... Burgh Surveyor, Troon ...	5	0 10	990	57·6	63·54	...	...
	8. STINCHAR & C. 155 sq. mi.								
D	Glenapp (Castle Gardens) ...	... Mr. J. A. Macdonald ...	5	1 0	300	...	55·81	201	178
D	Ballantrae	... D. J. W. Gray, Esq., M.B.E.	5	1 0	15	...	44·76	203	169
D	COLMONELL (Knockdolian) ...	... D. D. Gordon for Maj.-Gen. D. McConnell	5	1 0	170	44·8	45·60	186	173
w	Girvan (Glendrissaigh Res.) ...	... Burgh Surveyor	11	0 9	266	...	54·58	...	...
	9.—LOCH RYAN. 12 sq. mi.								
	10.—LUCE BAY. 15 sq. mi.								
D	Ballantrae (Lagafater Lodge) ...	... Cedric R. Boult, Esq. ...	5	0 10	792	64·8	64·50	208	189
	11.—CREE. 40 sq. mi.								
	12.—DEE. 9 sq. mi.								
	13.—NITH. 62 sq. mi.								
	Afton Res. (Afton Water) ...	... T. W. Leslie, Esq.	5	1 0	1525	80·6	91·80	...	...
	Afton Res. (Alwhat Burn) ...	... T. W. Leslie, Esq.	5	1 0	1435	81·1	96·85	...	...
	Afton Res. (Montraw Burn) ...	... T. W. Leslie, Esq.	5	1 0	1554	78·9	93·85	...	...
	§Afton Res. (Montraw) ...	... T. W. Leslie, Esq.	5	1 0	1372	77·0	89·74	...	...
	Afton Res. (Green Burn) ...	... T. W. Leslie, Esq.	5	1 0	1415	85·8	100·85	...	...
D	Afton Res. (Filters) New gauge	... T. W. Leslie, Esq.	5	1 0	1366	...	90·08	257	219
D	Glen Afton (Ayr Sanatorium)	... Dr. Wm. A. Murray ...	5	1 0	833	53·2	69·34	232	199
D	New Cumnock (Power Station)	... National Coal Board ...	5	1 0	764	55·8	66·07	243	197
	14.—INSULAR. 1 sq. mi.								
	Ailsa Craig	... Com'rs of N. Lighthouses	5	1 0	35	27·0	33·24	195	156

§ Turf wall round gauge.

DIVISION XIV—SOUTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	RENFREW. (Area, 241 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—CLYDE. Right Bank Tributaries. 3 sq. mi.								
	2.—CLYDE. Left Bank Tributaries. 194 sq. mi.								
M	Eaglesham (Dunwan Res.) ... No. 3	Geo. Sime, Esq.	5	1 0	822	50·5	75·46	...	...
	Eaglesham (Dunwan Res.) ... No. 4	Geo. Sime, Esq.	5	1 0	841	50·6	75·60	...	...
w	Eaglesham (Dunwan Res.) ... No. 2	Geo. Sime, Esq.	5	1 0	820	...	74·55	...	...
w	Eaglesham (Picketlaw Res.) ... No. 1	Geo. Sime, Esq.	5	1 0	690	...	75·62	...	...
D	Gorbals Dist. W.W. (Waulk Glen) ...	S. D. Canvin, Esq., C.E. ...	8	0 9	280	47·2	64·53	220	193
	Paisley W.W. (Muirhead)	J. A. McGregor, Esq., C.E.	5	1 0	482	53·9	73·35	...	...
	Paisley W.W. (Springside)	J. A. McGregor, Esq., C.E.	5	1 0	532	59·1	72·28	...	...
	Paisley W.W. (Back Thornlymuir) ...	J. A. McGregor, Esq., C.E.	12	1 0	646	50·9	73·29	...	...
	Paisley W.W. (Stanely)	J. A. McGregor, Esq., C.E.	5	1 0	190	...	65·49	...	...
D	Barrhead (Sewage Wks.)	Burgh Surveyor	5	1 0	100	...	57·00	208	183
D	Howwood (Midton House)	A. D. McNab, Esq. ...	5	1 3	232	56·9	69·92	204	184
D	Pollokshaws (Rouken Glen)	G. H. Garside, Esq. ...	5	1 0	155	43·2	55·55	210	181
D	Glasgow (The Linn Park)	G. H. Garside, Esq. ...	5	1 0	180	...	49·00	215	193
D	Pollokshaws (Pollok House)	Sir J. Stirling Maxwell, Bt....	5	1 0	50	36·5	50·75	223	182
D	Glasgow (Queen's Park)	G. H. Garside, Esq. ...	5	0 9	147	36·1	49·90	251	183
D	Glasgow (Maxwell Park)	G. H. Garside, Esq. ...	5	1 0	69	35·7	52·48	225	189
D	Lochwinnoch (Kaim Dam)	J. H. Murray, Esq., C.E. ...	8	1 0	616	...	101·14	245	211
D	Kilbarchan (Glentyan)	J. C. Hunter, Esq., J.P. ...	5	1 1	300	52·6	75·67	258	202
D	Paisley (Thornly Park School) ...	W. K. Wallace Lees, Esq.	5	1 0	195	...	62·31	216	182
D	PAISLEY (Coats Observatory)	Obs. Com. (J. Woodrow) ...	8	1 0	106	40·7	56·72	221	183
	§Shaws W.W. (Duchal Moor)	J. MacAlister, Esq., C.E. ...	5	1 0	1150	...	103·60	...	...
	§Shaws W.W. (Creuch Hill)	J. MacAlister, Esq., C.E. ...	5	1 0	1350	...	100·40	...	...
	Shaws W.W. (Green Water)	J. MacAlister, Esq., C.E. ...	5	1 0	788	*68·1*	97·00	...	...
D	RENFREW ... ... +A)	Meterological Office ...	8	1 0	29	37·0	52·62	213	179
D	Kilmacolm Waterworks	James Grier, Esq.	5	1 0	600	...	91·63	248	206
D	Kilmacolm Village	James Grier, Esq.	5	1 0	300	51·7	80·13	247	207
D	Shaws W.W. (Gryfe Reservoir) ...	J. MacAlister, Esq., C.E. ...	5	1 0	640	64·0	93·67	232	211
D	Shaws W.W. (Mansfield)	J. MacAlister, Esq., C.E. ...	5	1 0	573	65·2	87·47	231	205
	Shaws W.W. (Darndaff Moor) ...	J. MacAlister, Esq., C.E. ...	5	1 0	850	64·5	88·90	...	...
	3.—FIRTH OF CLYDE. 34 sq. mi.								
	Inverkip (Daff Burn Reservoir) ...	W. V. Kelly, Esq., C.E. ...	8	1 0	506	58.4	85·82	...	...
D	Dougliehill Filters (Pt. Glas. W.W.) ...	I. M. MacLean, Esq., C.E.	8	1 6	550	53·4	72·49	216	196
D	Parkhill Filters (Pt. Glas. W.W.)	I. M. MacLean, Esq., C.E.	8	1 6	275	48·1	65·00	216	191
D	Shaws W.W. (Compensation Res.) ...	J. MacAlister, Esq., C.E. ...	5	1 0	600	...	89·95	246	213
D	Shaws W.W. (Loch Thom)	J. MacAlister, Esq., C.E. ...	5	1 0	643	65·4	94·27	246	214
w	Shaws W.W. (Shielhill)	J. MacAlister, Esq., C.E. ...	5	1 0	962	64·2	95·80	...	...
d	Shaws W.W. (New Yett's Dam) ...	J. MacAlister, Esq., C.E. ...	5	1 0	800	63·2	95·01	242	216
w	Shaws W.W. (Spango Burn)	J. MacAlister, Esq., C.E. ...	5	1 0	757	62·6	96·40	...	...
D	Shaws W.W. (Hole Glen)	J. MacAlister, Esq., C.E. ...	5	1 0	603	61·6	98·09	242	208
D	GREENOCK (Prospect Hill) ... (+A)	J. MacAlister, Esq., C.E. ...	5	1 0	199	58·2	83·52	238	203
D	Gourock (Coves Reservoir)	W. V. Kelly, Esq., C.E. ...	5	1 0	350	...	82·65	227	203
	4.—IRVINE. 10 sq. mi.								

DIVISION XV—WEST MIDLAND COUNTIES

	DUNBARTON. (Area, 270 sq. mi.)								
	1.—FORTH. Right Bank Tributaries. 10 sq. mi.								
	2.—FIRTH OF CLYDE & COWAL. 52 sq. mi.								
D	HELENSBURGH (Valve House)	Burgh Engineer	8	1 0	293	53·0	73·14	228	195
d	Garelochhead (Whistlefield Filters) ...	Malcolm Ross, Esq. ...	5	1 0	295	...	79·25	...	...
D	Garelochhead (Arddarroch Gdns.) ...	Mr. D. Macpherson ...	5	1 0	100	...	101·56	239	213

§ Turf wall round gauge.

DIVISION XV—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	DUNBARTON—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	3.—CLYDE. Leven. 149 sq. mi.								
D	Dumbarton (Sewage Works)	W. Wilson, Esq., C.E.	5	1 0	11	...	61·69	201	188
D	Renton (Carman Filters)	J. Collier, Esq.	8	4 0	292	46·8	65·24	224	201
D	Loch Lomond Park	G. H. Garside, Esq.	5	1 0	156	50·2	76·43	247	215
	Helensburgh (Blairnairn) No. 1	Burgh Engineer	8	1 0	575	...	109·74	...	...
M	Glen Finlas Reservoir ... No. 1	Malcolm Ross, Esq.	5	1 0	782	69·1	107·41	...	...
D	Glen Finlas Reservoir ... No. 2	Malcolm Ross, Esq.	5	1 0	810	81·4	117·17	235	215
D	Loch Sloy (Coiregrogain)	N. of S. Hydro-Electric Bd.	5	1 0	449	...	154·99	232	226
D	Loch Sloy (Sloy Power Station)	N. of S. Hydro-Electric Bd.	5	1 0	99	...	133·67	238	223
d	Loch Sloy (Sloy Dam)	N. of S. Hydro-Electric Bd.	5	1 0	966	...	163·19	...	230
W	Ardvorlich	N. of S. Hydro-Electric Bd.	5	1 0	1123	...	163·48	...	...
D	Allt a Chnoic	N. of S. Hydro-Electric Bd.	5	1 0	1349	...	150·80	240	229
	4.—CLYDE. Right Bank Tributaries. 59 sq. mi.								
D	Duntocher (Cochno Filters)	J. E. McWilliam, Esq.	5	1 0	400	44·2	62·09	214	198
W	Kilpatrick Hills (Greenside Res.)	J. E. McWilliam, Esq.	5	1 0	876	51·8	72·33	...	...
W	Kilpatrick Hills (Loch Cochno)	J. E. McWilliam, Esq.	5	1 0	909	52·8	75·28	...	...
W	Kilpatrick Hills (Jaw Reservoir)	J. E. McWilliam, Esq.	5	1 0	912	53·9	80·43	...	...
D	Milngavie (Craigton School)	Miss E. B. Reid	5	1 0	425	...	75·49	226	196
	STIRLING. (Area, 463 sq. mi.)								
	1.—FORTH. Right Bank Tributaries. 263 sq. mi.								
D	Polmont (Vellore)	R. M. W. Brown, Esq.	5	1 0	320	32·0	48·50	210	171
d	Falkirk (Inglewood, Laurieston)	Miss H. S. D. Ballantine	5	1 0	133	34·8	49·20	200	177
D	Falkirk (Westbank) *Garden*	W. Gibson, Esq.	5	1 0	75	36·0	51·84	229	181
D	Falkirk (Westbank) *Lawn*	W. Gibson, Esq.	5	1 0	105	33·6	51·42	229	179
D	FALKIRK (Arnotdale)	W. Gibson, Esq.	5	1 0	105	33·7	51·48	230	181
	Falkirk (Kerse) *new g.*	Robert Johnston, Esq.	5	1 0	18	31·9	45·87	...	...
d	Grangemouth (Burgh Depot)	J. C. Wallace, Esq., C.E.	5	1 0	15	30·9	46·21	214	167
M	Little Denny Reservoir	Stirling & Falkirk W. Bd.	8	1 0	326	42·8	62·69	...	...
M	Little Denny Filters	Stirling & Falkirk W. Bd.	8	1 0	243	42·4	64·59	...	...
M	Kilsyth (Faughlin Reservoir)	Stirling & Falkirk W. Bd.	8	1 0	707	54·4	80·06	...	...
	Fintry (Waterhead)	Stirling & Falkirk W. Bd.	8	1 0	850	61·3	94·10	...	...
	Kilsyth (Kirkburn)	Stirling & Falkirk W. Bd.	8	1 0	743	53·3	78·05	...	...
	Denny (Buckieburn Reservoir)	Stirling & Falkirk W. Bd.	8	1 0	824	45·3	79·17	...	...
	Denny (Buckieburn Filters)	Stirling & Falkirk W. Bd.	8	1 0	760	42·1	79·13	...	...
D	Plean (Governor's House)	Lt.-Col. S. H. Cowan	5	1 0	120	...	53·47	232	173
M	Earlsburn Reservoir	Stirling & Falkirk W. Bd.	8	1 0	1202	56·8	91·97	...	...
D	Stirling (North Third Res.) No. 1	J. C. Wallace, Esq., C.E.	8	0 10	574	49·4	83·18	281	207
M	Stirling (North Third Res.) No. 2	J. C. Wallace, Esq., C.E.	5	1 0	825	...	79·30	...	...
M	Stirling (North Third Res.) No. 3	J. C. Wallace, Esq., C.E.	5	1 0	1010	...	82·40	...	...
D	Stirling (Touch Reservoir) No. 3	D. B. Marrs, Esq.	8	1 0	759	49·1	72·65	242	207
D	Stirling (Touch Reservoir) No. 2	D. B. Marrs, Esq.	8	1 0	707	47·9	67·93	241	202
D	Stirling (Touch Reservoir) No. 1	D. B. Marrs, Esq.	8	1 0	455	47·6	73·19	244	203
d	Polmaise Castle Gardens	Mr. J. McAndie	5	1 1	220	...	66·03	215	184
D	Kippen (Gribloch Gardens)	The Head Gardener	5	1 0	530	...	65·92	227	197
D	STIRLING (Sauchie House)	The Town Council	5	1 0	151	35·9	50·82	218	171
D	Kippen (Arngomery)	Mr. W. Low	5	4 6	150	46·5	67·30	254	201
D	Meiklewood	Mr. W. Donaldson	5	1 0	35	...	64·43	215	185
M	Duchray Valley (Ben Lomond)	S. D. Canvin, Esq., C.E.	8	0 6	1500	89·2	131·35	...	...
M	Duchray Valley (Glen Dhu)	S. D. Canvin, Esq., C.E.	8	1 0	500	81·8	116·70	...	...
M	Duchray Valley (Comer)	S. D. Canvin, Esq., C.E.	8	1 0	600	86·5	121·65	...	...
M	Duchray Valley (Achaidh Burn)	S. D. Canvin, Esq., C.E.	8	1 0	1200	94·4	135·60	...	...
	Duchray Valley (Hd. of Main Stream)	S. D. Canvin, Esq., C.E.	8	1 0	950	88·8	122·70	...	...

DIVISION XV—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	STIRLING—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	2.—FORTH. Teith. 5 sq. mi.								
D	Stronachlachar (Invergyle) ...	... S. D. Canvin, Esq., C.E. ...	8	1 0	376	83·2	104·78	249	220
	3.—FORTH. Left Bank Tributaries. 15 sq. mi.								
D	Bridge of Allan (Langlands) ...	... W. H. Gillespie, Esq. ...	5	1 0	45	...	50·10	230	188
	4.—CLYDE. Leven. 128 sq. mi.								
	Kilpatrick Hills (Burncrooks Res.)	... J. E. McWilliam, Esq. ...	5	1 0	835	51·9	70·54	...	...
D	Strathblane (Blanefield) ...	... S. D. Canvin, Esq., C.E. ...	8	1 0	250	50·6	79·48	236	209
	Killearn (The Oaks)	... Jas. Shearer, Esq.	5	1 6	250	...	63·18	...	...
	Drymen (Park of Drumquhussle)	... Miss B. A. Mitchell ...	5	1 3	67	...	67·32	...	...
D	BALFRON (High School) ...	... E. G. McHutchin, Esq., M.A.	5	1 1	342	...	66·16	234	197
	Loch Arklet (Corriehichon) ...	... S. D. Canvin, Esq., C.E. ...	8	0 6	870	82·6	119·30	...	...
	Loch Arklet (Corriearklet) ...	... S. D. Canvin, Esq., C.E. ...	8	0 6	950	85·2	118·00	...	...
	5.—CLYDE. Right Bank Tributaries. 52 sq. mi.								
D	Strathblane (Mugdock Reservoir)	... S. D. Canvin, Esq., C.E. ...	8	0 6	320	46·2	68·88	238	205
D	Milngavie (Eastertoun) ...	... Major R. M. Ker	5	1 0	450	46·4	68·14	244	192
D	Kilsyth (Innsbridge)	... J. Milne, Esq.	5	4 6	197	47·7	78·69	275	216
	Lennoxtown	... W. R. Patterson, Esq. ...	5	1 0	200	...	75·73	248	201
	BUTE. (Area, 218 sq. mi.)								
	1.—ISLE OF BUTE. 50 sq. mi.								
D	Rothesay (Dhu Loch W.W.) ...	... A. Stephen, Esq.	5	1 6	273	...	66·56	237	204
D	ROTHESAY (Ardencraig) ...	... Mr. J. McPhail	5	1 0	200	49·0	70·18	238	202
	2.—CUMBRAES. 4 sq. mi.								
D	Millport (St. Andrew's Home)	... Dr. J. H. Paul	5	0 9	10	...	61·77	214	195
D	Millport (Marine Biological Stn.)	... The Director	5	1 0	16	40·1	58·21	233	190
W	Millport (Water Works) ...	... J. Russell, Esq.	10	3 6	167	...	58·10	...	...
	3.—ARRAN. 164 sq. mi.								
D	Dougarie Lodge	... P. Helm, Esq.	5	1 0	50	46·0	57·01	190	183
	ARGYLL. (Area, 3,181 sq. mi.)								
	1.—TAY. Tummel. 36 sq. mi.								
	2.—SOUND OF ARISAIG, SOUND OF MULL & C. 317 sq. mi.								
D	Ardnamurchan Lighthouse ...	... Com'rs. of N. Lighthouses	5	1 0	79	...	52·15	234	191
D	Morvern (Drimnin)	... Miss A. Horsman	5	1 0	225	62·4	74·74	241	216
D	Loch Sunart (Glenborrodale)	... D. G. MacLaren, Esq. ...	5	1 0	50	69·0	77·82	250	222
W	Loch Sunart (Carnlia, Salen)	... Dr. D. Fergusson	5	1 0	35	76·9	89·01	...	...
D	Acharade (Shielbridge)... ...	... D. G. MacLaren, Esq. ...	8	3 0	51	67·2	76·20	236	214
D	Loch Shiel (Polloch House) ...	... Forestry Commission ...	5	1 6	17	95·8	91·02	221	203
	3.—LOCH LINNHE. Right Bank Tributaries. 139 sq. mi.								
D	Morvern (Kingairloch)... ...	... Mr. A. Cameron	5	1 0	40	*98·4*	129·45	245	230
d	Ardgour (Inversanda)	... Mrs. N. Irvine	5	1 0	25	...	121·51	233	...
	Corran Lighthouse	... Com'rs. of N. Lighthouses	5	1 0	13	81·0	98·07	221	202
D	Ardgour House	... Mrs. Maclean of Ardgour	5	0 10	60	97·6	121·86	252	223

DIVISION XV—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	ARGYLL—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	4.—LOCH LINNHE. Left Bank Tributaries. 165 sq. mi.								
D	Connel (Ledaig)	Dr. J. A. Watson	8	1 0	15	...	72·44	249	209
D	Barcaldine	Forestry Commission	5	1 0	50	65·9	80·25	238	220
D	Loch Creran (Rhu Garbh)	Miss Chisholm of Chisholm	5	1 0	20	...	77·71	247	210
D	Duror (Achadh Nan Sqiath)	G. H. Malcolm, Esq.	5	1 0	40	...	75·79	231	207
	Glenduror Forest	Forestry Commission	5	1 0	950	...	(139·82)	...	...
D	Glenleven (Kinlochleven) No. 1	British Aluminium Co. Ltd.	8	1 0	140	86·4	118·48	251	226
	5.—LOCH ETIVE. 197 sq. mi.								
D	Taynuilt (Muckairn)	S. L. Courtauld, Esq.	5	0 9	60	...	84·78	246	206
	6.—LOCH ETIVE. Loch Awe. 319 sq. mi.								
D	Loch Awe (Inverinan)	W. D. Rattray, Esq.	5	1 0	150	...	104·15	223	211
D	Acurrach	N. of S. Hydro-Electric Bd.	5	1 0	617	...	100·02	243	223
	7.—FIRTH OF LORNE. 112 sq. mi.								
d	Kilmelfort (Arduaine)	Mrs. Campbell of Arduaine	5	0 10	23	57·9	75·81	...	...
	Kilninver	A. F. Nicol, Esq.	5	1 5	40	58·7	87·00	...	...
W	Oban (Gleann-a-Bhearraidh Res.)	Burgh Surveyor	8	1 6	400	*57·2*	78·73	...	...
D	OBAN	Burgh Surveyor	8	1 1	229	...	76·18	240	210
	8.—SOUND OF JURA. 163 sq. mi.								
D	Lochgilphead (Poltalloch)	Colonel G. I. Malcolm	5	1 3	120	52·7	66·24	213	201
	9.—KINTYRE, WEST. 146 sq. mi.								
	‖Mull of Kintyre	Com'rs. of N. Lighthouses	5	1 0	270	40·9	47·01	200	177
D	Largie Castle	Mrs. Moreton Macdonald	5	1 1	160	46·3	67·20	249	210
D	Clachan (Balinakill)	W. Hampton, Esq.	5	1 0	200	...	64·73	223	203
D	West Loch Tarbett (Ardpatrick)	W. B. K. Kenneil, Esq.	5	0 10	25	...	52·44	227	192
W	West Loch Tarbert (Dunmore)	Capt. J. V. Taylor	5	1 8	100	...	59·09	...	...
	10.—KINTYRE, EAST. 177 sq. mi.								
D	Campbeltown	Burgh Surveyor	5	1 0	20	...	62·47	228	189
D	Carradale (Torrisdale Castle)	Mrs. J. Campbell	5	1 0	84	65·5	81·89	231	204
D	Carradale (Saddell Manse)	Rev. J. A. Argyll Baker	5	1 6	25	62·6	83·45	257	212
D	Monybacach (Skipness)	W. McLaren, Esq.	5	1 1	80	*48·8*	69·19	223	192
	11.—LOCH FYNE. 264 sq. mi.								
D	Ardlamont (Kilbride)	J. W. Turnbull, Esq.	5	1 0	110	46·5	72·37	234	198
D	Ardrishaig (Stronachullin)	J. E. Scott, Esq.	5	1 0	50	...	91·16	219	207
D	Ardrishaig (Canal Office)	M. S. Thompson, Esq.	5	1 0	48	63·5	86·52	226	210
D	Crarae Lodge	Capt. G. I. Campbell	5	1 0	20	70·2	96·51	246	220
D	Strachur Park	Lady G. Campbell	5	1 9	25	68·8	101·98	246	216
d	Brenchoillie	A. R. Page, Esq.	5	1 0	240	68·9	103·68	217	201
D	Inveraray Castle Gdns.	John McRobbie, Esq.	5	1 0	40	77·2	114·05	244	228
W	Loch Sloy (Allt Uaine)	N. of S. Hydro-Electric Bd.	5	1 0	1123	...	167·73	...	...
D	Ellerig Beg	N. of S. Hydro-Electric Bd.	5	1 0	29	...	106·32	242	219
W	Brannie Burn	N. of S. Hydro-Electric Bd.	5	1 0	1370	...	137·55	...	...
D	Glenfyne Lodge	N. of S. Hydro-Electric Bd.	5	1 0	126	...	123·31	230	222
W	Allt Na Lairige	N. of S. Hydro-Electric Bd.	5	1 0	1075	...	158·61	...	...
W	Sron-Mor	N. of S. Hydro-Electric Bd.	5	1 0	1194	...	124·83	...	...
	Loch Fyne Head	N. of S. Hydro-Electric Bd.	5	1 0	1151	...	148·26	...	...

‖ Site unorthodox.

DIVISION XV—WEST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	ARGYLL—(*contd.*).		*in.*	*ft.*	*in.* *ft.*	*in.*	*in.*		
	12.—FIRTH OF CLYDE AND COWAL. 242 sq. mi.								
D	Toward (Knockdow Gardens)	Sir Norman Lamont, Bart.	5	1	6 101	56·8	77·45	246	214
D	DUNOON	Burgh Surveyor	5	1	0 132	...	96·99	218	203
D	Glen Tarsan	N. of S. Hydro-Electric Bd.	5	1	0 400	...	113·21	233	219
D	DUNOON (BENMORE Forest School)	Forestry Commission	5	1	0 46	...	119·70	248	218
D	Loch Eck (Benmore)	Head Gardener	5	1	7 65	86·6	132·49	246	224
D	Strachur (GLENBRANTER)	Forestry Commission	5	1	0 120	85·2	124·19	250	224
d	Lochgoilhead (Nuthill)	Mrs. Henderson	5	1	0 15	74·5	107·75	...	209
D	Lochgoilhead (Ardgoil)	G. H. Garside, Esq.,	5	1	0 20	85·4	115·68	237	220
	13.—CLYDE. Leven. sq. mi.								
W	Loch Sloy (Beinn Ime 'South')	N. of S. Hydro-Electric Bd.	5	1	0 1322	...	167·86	...	...
W	Loch Sloy (Beinn Ime 'North')	N. of S. Hydro-Electric Bd.	5	1	0 1533	...	166·27	...	...
	14.—INSULAR. 900 sq. mi.								
	Islay (Rhinns)	Com'rs of N. Lighthouses	7	3	6 74	...	41·34	204	163
	Islay (Lochindaul)	Com'rs. of N. Lighthouses	5	0	7 45	44·0	63·16	233	221
D	Islay (Eallabus)	J. H. Cranston, Esq.	5	1	0 68	48·9	60·34	224	210
	Islay (Rhuvaal)	Com'rs. of N. Lighthouses	5	1	0 69	42·0	55·11	239	202
D	Jura (Tarbert)	Lord Astor	5	1	0 30	50·3	71·20	233	214
D	Jura (Ardlussa)	R. G. Fletcher, Esq.	5	0	9 100	50·1	67·88	245	206
D	COLONSAY	Mr. M. McNeill for Lord Strathcona	5	1	0 87	47·4	61·76	258	214
d	Seil (An Cala)	Col. the Hon. A. C. Murray	5	1	0 30	57·4	78·56	...	...
	Lismore (Mousedale)	Com'rs. of N. Lighthouses	7	3	10 38	43·7	(63·68)	198	183
D	Iona (Maol)	Mr. MacNiven	5	1	0 60	...	55·25	225	212
d	Mull (Ulva)	The Hon. Mrs. Aldridge	5	0	11 40	64·8	70·97	...	235
D	Mull (Gruline)	A. Livingstone, Esq.	8	1	0 100	79·0	92·91	254	219
	Mull, Sound of	Com'rs. of N. Lighthouses	...	...	... ...	61·5	71·02	191	186
D	TIREE (+A)	Meteorological Office	5	1	0 29	44·7	55·28	236	194

DIVISION XVI—EAST MIDLAND COUNTIES

CLACKMANNAN. (Area, 55 sq. mi.)

1.—FORTH. LOWER. Left Bank Tributaries. 55 sq. mi.

D	Alloa House Gardens	Earl of Mar & Kellie, K.T.	5	3	0	50	33·2	50·47	239	184
D	Tillicoultry (The Cemetery)	The Superintendent	5	1	0	80	34·5	49·58	220	200
W	Menstrie (Lipney Filters)	Robert Cairns, Esq., C.E.	5	1	0	328	...	49·20	...	...
M	Glendevon (Broich Burn) No. 2	County Engineer	8	1	0	1333	71·7	97·39	...	...
M	Glendevon (Burnfoot Hill) No. 8	County Engineer	8	1	0	1721	...	87·93	...	...
M	Glendevon (Backhill) No. 9	County Engineer	8	1	0	1067	58·3	86·29	...	...

KINROSS. (Area, 87 sq. mi.)

1.—FORTH. LOWER. Left Bank Tributaries. 15 sq. mi.

2.—LEVEN & C. 67 sq. mi.

D	Loch Leven Sluice	G. Harley, Esq.	5	1	0	360	35·8	48·09	215	177
D	Milnathort (Laurel Bank)	Capt. L. Kininmouth	5	1	0	396	36·3	45·77	210	166
D	Milnathort (Ledlanet)	Sir James C. Calder, K.B.E.	5	1	0	700	47·1	60·72	241	206
D	Milnathort (Ochil Hills Sanatorium)	Medical Superintendent	5	1	0	800	47·3	60·49	208	178

3.—EDEN. 2 sq. mi.

4.—TAY. Earn. 3 sq. mi.

DIVISION XVI—EAST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	FIFE. (Area, 505 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—FORTH. LOWER. Left Bank Tributaries. 68 sq. mi.								
D	DUNFERMLINE	Carnegie Dunfermline Trust	5	1 0	237	...	39·31	214	172
D	Kincardine (Tulliallan)	A. M. Mitchell, Esq.	5	1 0	90	33·8	43·32	206	173
	Carnock (Craigluscar Reservoir)	D. H. Shaw, Esq., C.E.	12	0 4	480	36·1	42·65	...	...
	2.—LEVEN & C. 208 sq. mi.								
D	DONIBRISTLE (R.N.A.S.)	Meteorological Office	5	1 0	120	...	35·89	193	159
d	Burntisland (Cullaloe Res.)	G. H. Rodger, Esq.	5	1 0	294	...	37·54	...	...
D	Cowdenbeath (Sewage Works)	H. Gardiner, Esq.	5	1 0	390	...	45·27	223	173
	Cleish Hills (Craiggaveral)	H. Gardiner, Esq.	5	1 0	760	41·0	51·12	...	...
	Cleish Hills (Roscobie Res.)	H. Gardiner, Esq.	5	1 0	660	39·6	50·30	...	...
D	Kirkcaldy (Carberry)	R. Ritchie, Esq.	5	1 0	326	...	35·77	217	156
	Cleish Hills (Blairadam)	H. Gardiner, Esq.	5	1 0	670	35·8	45·44	...	...
D	Leslie (Lothrie Res.)	R. Ritchie, Esq.	5	1 0	700	36·7	46·42	238	181
D	Leven (Silverburn)	Sir David Russell	5	1 0	70	...	32·59	183	144
D	Markinch (Rothes)	Sir David Russell	5	1 0	198	...	39·95	211	159
D	Markinch (Carriston Reservoir)	Water Superintendent	5	0 9	293	32·9	42·24	216	158
D	Markinch (Coul Reservoir)	Water Superintendent	5	0 9	438	35·2	47·35	226	184
D	Arncroach (Dreel House)	J. O. Duncan, Esq.	5	1 0	250	...	35·52	198	144
D	Carnbee (Ovenstone W.W.)	Mr. W. Donaldson	5	1 0	168	25·8	35·63	196	144
	3.—EDEN & C. 205 sq. mi.								
D	Cupar (Clatto Reservoir)	R. W. Morrison, Esq.	5	1 0	505	30·1	42·52	220	159
D	Cameron Waterworks	Burgh Surveyor	5	1 0	478	29·9	39·72	197	155
D	Cupar (Pitlair)	Mr. P. Webster	5	1 0	126	29·5	36·26	196	152
d	Cupar (Rankeillour)	Mr. R. Meldrum	5	1 0	240	28·7	36·99	...	138
D	Cupar (Fife District Asylum)	Medical Superintendent	5	1 0	210	27·7	36·50	192	149
D	Kingsbarns	J. N. Dickie, Esq.	5	1 0	70	...	32·08	188	140
D	Cupar (Over Rankeillour)	H. Giles Walker, Esq.	5	1 0	200	28·7	36·12	195	148
d	Cupar (Beet Sugar Factory)	British Sugar Corpn. Ltd.	5	1 0	82	...	34·98	...	141
D	St. Andrews (Waterworks)	Burgh Surveyor	5	1 0	217	27·3	32·08	202	149
D	ST. ANDREWS	Burgh Surveyor	5	1 0	13	27·1	31·33	186	145
D	LEUCHARS (Airfield)	(+A) Meteorological Office	8	1 0	36	25·7	31·12	192	140
	4.—FIRTH OF TAY. 25 sq. mi.								
D	Balmarino Manse	Mr. R. L. Constable	5	1 0	200	...	35·48	194	147
D	Newport (Tayfield)	W. Berry, Esq.	5	0 7	100	28·3	36·00	188	158
D	Tayport (Lighthouse)	Dundee Harbour Trust	5	1 0	27	26·3	35·84	207	142
	5.—TAY. Earn. 1 sq. mi.								
	6.—INSULAR.								
	Inchkeith Lighthouse	Com'rs. of N. Lighthouses	5	1 0	190	...	31·64	153	121
	Isle of May	Com'rs of N. Lighthouses	5	4 0	180	...	25·75?	191	121
	PERTH. (Area, 2,535 sq. mi.)								
	1.—FORTH. Right Bank Tributaries. 17 sq. mi.								
D	Gartmore House Gardens	Mr. H. B. Matheson	5	1 0	160	*56·0*	82·16	268	205
D	Loch Dhu	S. D. Canvin, Esq., C.E.	8	1 0	325	79·8	107·36	246	221
	2.—FORTH. UPPER. Left Bank Tributaries. 84 sq. mi.								
D	Loch Ard (Couligarton)	Major R. S. Cunninghame	5	0 10	200	...	107·66	255	219

DIVISION XVI—EAST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	PERTH—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	3.—FORTH. Teith. 221 sq. mi.								
M	Ochtertyre (Stirling)	Lt.-Col. J. C. Dundas, D.S.O.	5	1 0	14	39·4	57·90	...	...
	Loch Drunkie	S. D. Canvin, Esq., C.E.	8	1 0	420	62·4	91·74	...	...
D	Invertrossachs	Sir James R. Wilson, Bt.	5	1 0	380	59·8	84·44	228	194
	Ben Venue (Glasahoile)	S. D. Canvin, Esq., C.E.	8	1 0	1150	79·4	103·70	...	...
D	Loch Vennachar	S. D. Canvin, Esq., C.E.	5	1 0	273	55·3	79·94	243	195
D	Bridge of Turk	S. D. Canvin, Esq., C.E.	5	1 0	275	63·7	88·42	237	207
	Loch Katrine (Tunnel Hill Top)	S. D. Canvin, Esq., C.E.	8	1 0	830	79·0	111·18	...	...
	Ben Ledi	S. D. Canvin, Esq., C.E.	8	1 0	1400	67·0	93·20	...	...
	Achnahard	S. D. Canvin, Esq., C.E.	8	1 0	474	65·5	91·40	...	...
	Callander (Leny House)	Capt. M. Murray Buchanan	5	1 0	340	56·9	78·40	....	...
W	Strone Bridge	S. D. Canvin, Esq., C.E.	8	1 0	380	71·7	98·60	...	...
	Glen Meann	S. D. Canvin, Esq., C.E.	8	1 0	800	76·5	103·20	...	...
	Glen Finlas	S. D. Canvin, Esq., C.E.	8	1 0	1200	78·3	102·40	...	...
D	Glengyle	S. D. Canvin, Esq., C.E.	8	0 6	380	89·9	116·51	225	215
	Upper Glengyle	S. D. Canvin, Esq., C.E.	8	1 0	750	94·7	119·90	...	...
	Allt a' Choin	S. D. Canvin, Esq., C.E.	8	1 0	1250	88·2	117·85	...	...
d	Strathyre	Forestry Commission	5	1 0	425	...	96·73	217	196
W	Balquhidder (Blaircreach)	J. M. Fergusson, Esq.	5	1 0	460	92·7	130·56	...	...
D	Balquhidder (Stronvar)	Major G. Fullerton-Carnegie	5	1 0	422	74·2	92·02	229	201
	4.—FORTH. LOWER. Left Bank Tributaries. 107 sq. mi.								
d	Dunblane	J. W. Kirkland, Esq.	5	8 0	185	40·0	51·58	204	170
D	Dunblane (Lynedoch)	E. J. Balfour, Esq.	5	1 0	265	...	54·44	252	195
D	Dunblane (Elmswood)	A. E. Martin, Esq.	5	1 0	300	...	56·13	214	184
D	Glendevon (Glenquey Res.)	No. 2 County Engineer	8	1 0	942	58·0	75·53	240	201
D	Glendevon (Frandy)	County Engineer	8	1 0	911	61·6	86·50	231	215
	Glendevon (Glensherup)	D. H. Shaw, Esq., C.E.	12	0 4	945	59·0	79·43	...	...
M	Glendevon (Bald Hill)	No. 1 County Engineer	8	1 0	1202	58·0	85·40	...	...
M	Glendevon (Wether Hill)	No. 10 County Engineer	8	1 0	1408	...	83·06	...	...
	5.—LEVEN. 1 sq. mi.								
	6.—EDEN. 4 sq. mi.								
	7.—TAY. Earn. 376 sq. mi.								
D	Gleneagles House	Mrs. Grace Todd	5	1 0	400	...	65·03	222	190
	Upper Farg (Plains)	County Engineer	8	1 0	900	...	52·56	...	...
D	Upper Farg (Main Bank)	County Engineer	8	1 0	632	...	52·84	226	169
D	Dunning (Kippen House)	Captain T. D. Wilson	5	1 0	450	44·6	61·67	215	173
	Bridge of Earn (Ramsheugh)	Water Engineer, Perth	5	1 2	310	...	47·87	...	...
D	Bridge of Earn (Ballendrick)	G. M. Taylor, Esq.	5	1 0	50	31·5	45·09	222	170
D	Lochearnhead (Ardloch)	S. Moir, Esq.	5	1 0	370	62·1	84·76	266	208
D	Lochearnhead (Ardvorlich)	J. Stewart, Esq.	5	1 0	350	...	87·90	232	193
D	Lochearnhead (Edinchip)	Sir Malcolm MacGregor, Bt.	5	1 0	513	69·0	93·91	255	218
D	Comrie (Dunira Gardens)	J. D. Falla, Esq.	5	1 8	200	...	68·50	202	190
d	Comrie (Invergeldie Lodge)	N. of S. Hydro-Electric Bd.	5	1 0	795	...	80·10	...	177
D	Crieff (Strathearn Hydro)	Manager	5	1 0	478	40·9	50·29	197	174
	Loch Turret (Lower Glenturret)	Water Engineer, Perth	5	1 0	1090	...	71·80	...	...
	Loch Turret (Glenturret Lodge)	Water Engineer, Perth	5	1 0	1280	...	81·35	...	...
	Loch Turret (Upper Glenturret)	Water Engineer, Perth	5	1 0	1325	...	80·94	...	...
	8.—TAY. Almond & c. 149 sq. mi.								
D	Perth (Craigie Haugh)	J. Penman, Esq., C.E.	5	4 2	14	...	41·26	200	157
D	Perth (Wellshill Cemetery)	Town Council (J. Wood)	5	1 0	77	30·8	41·53	213	151
W	Methven Waterworks	Water Engineer, Perth	8	1 0	450	...	46·89	...	...

DIVISION XVI—EAST MIDLAND COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	PERTH—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	9.—TAY. Strathtay below Dunkeld. 33 sq. mi.								
d	Dunkeld (Snaigow)	... The Earl of Cadogan ...	5	1 0	370	34·7	46·85	...	152
	10.—TAY. 81 sq. mi.								
D	Strath Bran (Glenquaich Lodge)	... W. A. Cox, Esq.	5	1 0	900	54·1	68·68	235	194
D	Strath Bran (Garrows) ...	... K. O. Hunter, Esq. ...	5	0 9	980	...	61·21	221	185
	11.—TAY. Strathtay above Dunkeld. 95 sq. mi.								
D	Aberfeldy (Dall Avon) ...	... Dr. N. D. Mackay	5	1 0	320	37·4	48·87	222	170
D	Aberfeldy (Grandtully Castle Gdns.)	... Mr. W. Robertson	5	0 11	383	37·0	48·70	199	169
	12.—TAY. Loch Tay. 241 sq. mi.								
d	Tyndrum (Strathfillan Manse)	... Rev. Christopher MacKinnon	5	1 0	700	...	111·03	211	203
D	Killin (Kinnell Gardens) ...	... The Head Gardener ...	5	1 0	380	58·2	82·14	217	192
D	Loch Tay (Ardeonaig)	... Rev. Herbert Rose	5	1 0	450	...	69·35	221	189
D	Kenmore (Dalerb)	... W. L. Ross, Esq.	5	1 1	390	...	55·87	224	175
	13.—TAY. Lyon. 142 sq. mi.								
D	Glenlyon (Meggernie Castle) ...	... Sir E. S. Wills, Bt.	5	1 0	700	61·5	81·10	258	209
	Fortingall (Glenlyon House) ...	... Mr. David R. Dow ...	5	1 0	425	44·7	60·41	...	...
	14.—TAY. Tummel. 587 sq. mi.								
	Braes of Foss	... N. of S. Hydro-Electric Bd.	5	1 0	2150	...	64·33	...	...
D	Loch Rannoch (Dall)	... Mr. D. Robertson, Jun. ...	5	1 0	722	43·2	57·59	214	193
D	Loch Rannoch (Station) ...	... N. of S. Hydro-Electric Bd.	5	1 0	1007	60·4	88·68	248	217
D	Loch Rannoch (Power House)	... N. of S. Hydro-Electric Bd.	5	1 0	675	43·4	58·97	222	190
D	Foss (Domnaheich)	... N. of S. Hydro-Electric Bd.	5	1 0	640	...	56·39	195	157
D	Loch Tummel (Power House)	... N. of S. Hydro-Electric Bd.	5	1 0	500	...	52·48	219	169
d	Loch Tummel (Strathtummel P.O.)	... N. of S. Hydro-Electric Bd.	5	1 0	660	...	48·28	...	...
d	Loch Tummel (Grenich) ...	... N. of S. Hydro-Electric Bd.	5	0 11	1000	...	42·36?	...	...
d	Loch Tummel (Over Bohespie)	... N. of S. Hydro-Electric Bd.	5	1 0	1000	...	52·47	...	...
d	Pitlochry (Bonskeid)	... Hon. Mrs. G. F. Barbour	5	1 0	540	33·0	47·00	...	166
M	Pitlochry (Allt Girnaig) ...	... Mr. J. McLaughlan ...	5	1 0	850	...	45·40	...	...
D	Fincastle House...	... Hon. Mrs. G. F. Barbour	5	1 0	980	33·9	47·09	211	184
D	Ericht Dam	... N. of S. Hydro-Electric Bd.	5	1 0	1196	54·1	74·05	234	204
D	Struan (Auchleeks)	... Miss Robertson	5	1 0	710	45·5	67·28	223	188
D	Struan (Tomnacuag)	... N. of S. Hydro-Electric Bd.	5	0 8	500	...	47·95	199	159
d	Edendon Bridge	... N. of S. Hydro-Electric Bd.	5	1 0	1029	...	64·62	...	155
w	Dalnaspidal (Luidhearnaidh) ...	... N. of S. Hydro-Electric Bd.	5	1 4	1710	63·4	72·03	...	...
D	Glen Tilt (Clachglas)	... N. of S. Hydro-Electric Bd.	5	1 0	1000		53·33	191	173
D	Glen Bruar (Bruar Lodge) No. 1	... N. of S. Hydro-Electric Bd.	5	1 0	1500	...	58·71	253	192
	Edendon (Sronphadruig Lodge)	... N. of S. Hydro-Electric Bd.	5	1 0	1630	44·9	76·72	...	...
	15.—TAY. Isla. 282 sq. mi.	...				...			
d	Blairgowrie (Perth Road) ...	... Wm. D. M. Falconer, Esq.	5	1 6	262	...	43·61	...	141
D	Dunkeld (Cardney)	... A. R. Macgregor, Esq. ...	5	1 0	350	37·4	46·37	201	165
D	Dunkeld (Riechip Lodge) ...	... R. J. Crammond, Esq. ...	5	1 0	1000	...	44·48	171	153
	Loch Benachally	... Blairgowrie Dist. Water Bd.	8	1 0	1007	40·4	47·33	...	...
D	Kirkmichael (Ballintuim House)	... Miss Louisa Macdonald ...	5	1 4	700	40·3	46·70	212	160
d	Kirkmichael School	... Miss C. Macgregor ...	5	1 0	700	37·7	45·81	199	158
	16.—TAY. Left Bank Tributaries. 51 sq. mi.								
	17.—FIRTH OF TAY. 45 sq. mi.								
	Errol (Fingask)	... Water Engineer, Perth ...	5	0 6	362	...	42·46	...	...
D	LONGFORGAN (Woodlands) ...	... Dr. J. H. Brush	5	1 0	166	26·6	34·36	187	142

DIVISION XVI—EAST MIDLAND COUNTIES—(*contd.*)

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	PERTH—(*contd.*).			*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	18.—SPEY. Right Bank Tributaries. 1 sq. mi.									
	19.—LOCH LINNHE. Left Bank Tributaries. 2 sq. mi.									
	20.—CLYDE. Leven. 36 sq. mi.									
W	Lairig (Arnan)		N. of S. Hydro-Electric Bd.	5	1 0	1115	...	149·32	...	...
W	Dubh Eas		N. of S. Hydro-Electric Bd.	5	1 0	1210	...	149·44	...	...
	ANGUS. (Area, 875 sq. mi.)									
	1.—TAY. Isla. 211 sq. mi.									
d	Glamis Castle		Mr. D. McInnes	5	0 7	250	30·9	42·58	...	126
D	Forfar (Yeaman Street)		William P. Welsh, Esq. ...	5	1 6	226	...	39·11	199	142
D	Kirriemuir (Lintrathen) ...	(+A)	R. Little, Esq., C.E. ...	8	1 0	700	34·7	47·39	211	163
M	Kirriemuir (Balnakeilly)		R. Little, Esq., C.E. ...	5	1 0	700	34·1	48·05	...	...
M	Kirriemuir (Dykends)		R. Little, Esq., C.E. ...	5	1 0	750	36·4	49·30	...	...
M	Kirriemuir (Creich Hill N.)		R. Little, Esq., C.E. ...	5	1 0	1491	40·5	54·28	...	...
M	Kirriemuir (Backwater)		R. Little, Esq., C.E. ...	5	1 0	850	39·7	51·38	...	...
M	Kirriemuir (Westerton)		R. Little, Esq., C.E. ...	5	1 0	900	40·5	55·05	...	...
M	Kirriemuir (Macritch)		R. Little, Esq., C.E. ...	5	1 0	1300	38·7	52·97	...	...
M	Kirriemuir (Newton)		R. Little, Esq., C.E. ...	5	1 0	735	37·4	51·61	...	...
M	Kirriemuir (Longdrum)		R. Little, Esq., C.E. ...	5	1 0	1045	39·3	54·75	...	...
M	Kirriemuir (Glendye)		R. Little, Esq., C.E. ...	6	1 0	1050	44·9	57·92	...	...
M	Kirriemuir (Barney)		R. Little, Esq., C.E. ...	5	1 0	1170	40·2	53·83?	...	...
M	Kirriemuir (Glenhead)		R. Little, Esq., C.E. ...	5	1 0	1260	43·1	57·10	...	...
M	Kirriemuir (Dalvanie)		R. Little, Esq., C.E. ...	5	1 0	1020	42·7	56·40	...	...
M	Kirriemuir (Glen Damff)		R. Little, Esq., C.E. ...	5	1 0	1360	43·7	57·00?	...	...
	2.—FIRTH OF TAY. 80 sq. mi.									
D	CARNOUSTIE (BUDDON NESS LIGHT)		Dundee Harbour Trust ...	5	1 0	15	26·4	34·26	198	140
D	Dundee Harbour		Dundee Harbour Trust ...	5	0 11	14	27·4	33·02	179	138
W	Dundee (West Park Road)		David N. Burns, Esq. ...	5	1 0	172	...	35·51	...	...
D	Dundee (Stobsmuir Reservoir) ...		R. Little, Esq., C.E. ...	5	1 0	278	...	36·50	199	149
D	Dundee (Camperdown Works) ...		Messrs. Cox Bros. Ltd. ...	5	1 0	300	26·8	38·06	211	145
D	Balruddery		H. S. Sharp, Esq.	5	1 0	266	29·8	39·76	190	147
D	DUNDEE (Mayfield)		Director of Studies ...	8	1 0	147	26·2	40·16	187	146
D	Dundee (Clatto Reservoir)		R. Little, Esq., C.E. ...	8	1 2	498	...	39·20	226	157
	3.—SOUTH ESK & C. 371 sq. mi.									
D	Monikie Reservoir		R. Little, Esq., C.E. ...	5	1 0	494	34·7	40·74	201	148
D	Monikie (Crombie Reservoir) ...		R. Little, Esq., C.E. ...	5	1 0	528	35·2	40·94	192	144
M	Monikie (Fallaws)		R. Little, Esq., C.E. ...	8	3 0	585	33·2	42·07	...	...
D	ARBROATH (W. Cemetery)		Town Council (S. Robertson)	5	1 0	93	25·6	33·66	179	135
W	Arbroath (Muirheads Reservoir) ...		Burgh Engineer	5	1 0	251	28·1	33·12	...	...
D	Forfar (Pitscandly House)		Mrs. Ewen	5	1 8	300	...	39·71	171	137
D	MONTROSE		Burgh Surveyor	5	1 0	16	...	29·03	160	125
D	Montrose (West End Park)		Burgh Surveyor	5	1 0	19	26·0	31·83	169	134
D	Forfar W.W. (Den of Ogil)		Alex. C. Millar, Esq. ...	12×4	3 1	633	39·4	47·45	209	150
d	Glenogil Water Works		Burgh Engineer, Arbroath...	5	1 0	690	40·9	48·69	...	148
D	Glen Prosen (Pearsie House)		G. M. Wedderburn, Esq. ...	5	1 0	600	39·1	43·64	195	152
M	Glen Prosen (Cormuir)		R. Little, Esq., C.E. ...	5	1 0	870	53·1	57·10?	...	...
	4.—NORTH ESK & C. 213 sq. mi.									
D	MONTROSE (SUNNYSIDE ASYLUM) ...		Medical Superintendent ...	5	0 10	200	27·0	32·28	174	138
D	Brechin (Stracathro Hospital)... ...		Medical Superintendent ...	5	1 0	120	...	36·93	195	131

DIVISION XVII—NORTH-EASTERN COUNTIES

	STATIONS		AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	KINCARDINE. (Area, 382 sq. mi.)			*in.*	*ft* *in.*	*ft.*	*in.*	*in.*		
	1.—NORTH ESK & C. 99 sq. mi.									
d	Laurencekirk (Johnston Lodge)		Miss Elspeth Johnston	5	1 0	400	33·1	38·61	...	...
D	Fettercairn (Fasque)		A. C. Gladstone, Esq.	5	0 10	320	36·0	38·15	212	154
	2.—BERVIE, COWIE & C. 139 sq. mi.									
D	STONEHAVEN		Town Council	5	1 0	125	27·4	31·90	195	143
	Girdleness Lighthouse		Com'rs. of N. Lighthouses	7	4 0	89	...	26·28	154	113
	3.—DEE. 144 sq. mi.									
D	Strachan (Bridge of Dye)		A. C. Gladstone, Esq.	5	1 0	513	43·9	45·53	179	138
D	Banchory (Invery)		Major Jas. Kerr	5	1 0	225	34·8	36·88	187	135
D	Banchory (Invercannie)		F. R. Smyth, Esq., C.E.	5	0 9	208	31·9	34·46	200	139
	ABERDEEN. (Area, 1,974 sq. mi.)									
	1.—DEE. 672 sq. mi.									
	Glen Muick		F. R. Smyth, Esq., C.E.	5	1 0	1370	45·1	51·79	...	...
M	Glen Muick (Ichnabobart)		F. R. Smyth, Esq., C.E.	5	1 0	1270	41·9	46·91	...	...
D	Aitnach		F. R. Smyth, Esq., C.E.	5	1 0	1260	41·9	54·48	233	163
D	BRAEMAR (Bank)		R. A. Lees, Esq.	5	1 0	1111	35·4	42·13	210	163
D	Braemar (Derry Lodge)		F. R. Smyth, Esq., C.E.	5	1 0	1400	38·1	48·64	212	184
D	Glen Tanar (Mansion House)		Lord Glentanar	5	1 0	553	...	42·74	212	132
D	BALMORAL Castle Gardens	(+A)	Mr. Alex. Stuart	5	1 0	927	33·0	36·48	209	145
D	Ballater (Irrigation Farm)		F. R. Smyth, Esq., C.E.	5	1 0	637	33·2	34·20	178	132
M	Beinn Bhreac		F. R. Smyth, Esq., C.E.	5	1 0	2700	47·1	59·47	...	...
D	Aboyne (Irrigation Farm)		F. R. Smyth, Esq., C.E.	5	1 0	380	31·9	33·22	187	124
d	Dess House		Capt. D. G. Davidson	5	1 8	475	31·2	32·94	...	132
D	Glen Gairn (Gairn Shiel Lodge)		F. R. Smyth, Esq., C.E.	5	1 0	1100	34·4	37·79	222	155
d	Glen Gairn (Corndavon)		F. R. Smyth, Esq., C.E.	5	1 0	1500	...	41·89	...	...
M	Lumphanan		F. R. Smyth, Esq., C.E.	5	1 0	490	31·6	35·34	...	...
D	Drumoak (Drum Castle)		H. Q. Forbes Irvine, Esq.	5	1 0	320	30·9	33·98	213	149
D	LOGIE COLDSTONE SCHOOL		Jas. R. Ferguson, Esq., M.A.	5	1 0	608	30·9	32·07	195	134
W	Tarland (Melgum)		J. A. Ross, Esq.	8	1 0	675	...	32·85	...	...
D	Aberdeen (Mannofield Res.)		F. R. Smyth, Esq., C.E.	5	1 0	171	30·5	33·39	225	143
D	Craigiebuckler		Macaulay Institute for Soil Research	5	1 0	220	...	33·93	187	152
	2.—DON. 512 sq. mi.									
D	Strathdon (Tornashean)		Mr. G. A. Crawford	5	1 0	1000	...	34·71	213	140
D	Bridge of Don (Braehead)		The Marquis of Aberdeen	5	1 0	114	...	29·71	191	132
D	Craibstone (Sth. Meethill Field)		Macaulay Institute for Soil Research	5	1 0	275	33·6	36·40	195	148
D	Dyce (CRAIBSTONE)	(+A)	College of Agriculture	8	1 0	300	31·5	34·57	187	142
D	DYCE (Airfield)		Meteorological Office	5	1 0	241	...	32·75	196	137
D	Alford (Littlewood Park)		Sir Alan McLean	5	1 0	750	...	34·90	211	145
	3.—YTHAN & C. 285 sq. mi.									
D	Ellon (Esslemont House)		Mrs. Wolrige Gordon	5	1 2	100	...	31·97	219	133
D	Haddo House		Major D. Gordon	5	1 0	186	31·5	32·25	190	143
D	Fyvie Castle		Col.Sir C.R.Forbes-Leith,Bt.	5	1 0	200	33·9	33·51	174	139
	4.—UGIE & C. 257 sq. mi.									
D	New Deer School House		C. S. Henderson, Esq.	5	1 0	397	32·3	32·33	222	149
D	Peterhead (Forehill Works)		J. Coull, Esq., C.E.	5	0 8	133	30·3	29·05	188	136
D	Peterhead (Mains of Buthlaw)		W. Johnston, Esq.	5	1 6	120	30·3	32·07	208	145
D	Fedderate Reservoir		G. S. Stewart, Esq.	5	0 9	410	...	37·20	170	140
D	Rattray Head (C. G. Station)	(+A)	Coastguard for M.O.	5	1 0	85	...	29·26	193	150
	Kinnaird Head		Com'rs. of N. Lighthouses	5	1 0	62	26·2	27·73	163	130

DIVISION XVII—NORTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	ABERDEEN—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	5.—DEVERON & C. 248 sq. mi.								
	BANFF. (Area, 630 sq. mi.)								
	1.—YTHAN. 1 sq. mi.								
	2.—DEVERON & C. 344 sq. mi.								
D	Cabrach Manse	County Road Surveyor	5	1 0	1025	...	40·43	214	161
D	Drummuir Castle	H. G. Brown, Esq.	5	1 10	620	36·4	38·51	219	161
D	Easterfield School	T. H. Smith, Esq.	5	1 0	450	...	32·06	185	130
D	Turiff (Forglen Gardens)	Mr. S. Henderson	5	1 0	220	31·9	33·53	219	150
D	BANFF	Town Council (I. H. Gordon)	5	0 9	130	26·8	30·00	202	142
d	Buckie (Rochomie)	Burgh Surveyor	5	1 0	287	27·0	26·58	...	132
D	Cullen House Gardens	C. A. Ritchie, Esq.	5	1 2	150	30·6	30·07	232	144
	3.—SPEY. Right Bank Tributaries. 285 sq. mi.								
D	Glenlivet (Clashnoir)	Mrs. M. J. F. Barrett	5	1 0	1050	...	37·11	234	158
D	Ballindalloch	C. Mackenzie, Esq.	8	1 0	630	33·7	36·98	243	175
	MORAY. (Area, 477 sq. mi.)								
	1.—DEVERON & C. 7 sq. mi.								
	2.—SPEY. Right Bank Tributaries. 35 sq. mi.								
D	Fochabers (GORDON CASTLE)	Mr. J. Taylor for Commissioners of Crown Lands	5	1 0	104	29·8	31·19	175	134
	3.—SPEY. Left Bank Tributaries. 133 sq. mi.								
D	Grantown-on-Spey (Bieldside)	W. Hutchinson, Esq.	5	1 0	750	...	32·34	229	147
	4.—LOSSIE & C. 154 sq. mi.								
D	Kellas (Kellas House)	Mrs. Christie	5	2 0	446	31·4	39·91	216	164
D	Lhanbryde (Blackhills House)	Mr. W. Dunbar	5	0 6	310	29·2	35·03	215	154
D	Elgin (Kirkhill)	Mrs. M. D. MacDonald	5	1 7	35	...	28·88	217	139
D	Elgin (The Bield)	Mrs. Harrison	5	1 4	120	...	29·45	197	140
D	Elgin Academy	The Rector	5	1 6	80	...	28·97	195	136
D	Elgin (Lesmurdie)	Mrs. J. G. Norman	5	1 0	114	26·9	28·96	194	142
D	Elgin (Newton Nursery)	Forestry Commission	5	1 0	75	...	29·38	169	127
D	LOSSIEMOUTH (Airfield)	Meteorological Office	5	1 0	21	...	25·96	177	130
	5.—FINDHORN & C. 148 sq. mi.								
D	Forres (Drumduan)	Miss A. MacKinnon of MacKinnon	5	2 6	120	26·5	32·22	199	132
D	Forres (Drumduan, West Lodge)	Mr. G. Dyker	8	1 0	150	...	32·02	198	143
D	FORRES (Hydro)	Town Clerk	5	1 0	155	...	29·11	181	133
	NAIRN. (Area, 163 sq. mi.)								
	1.—FINDHORN & C. 102 sq. mi.								
D	Ardclach (Glenferness)	Mr. J. May	8	1 0	700	34·8	45·12	209	162
D	Lethen	Major D. J. Brodie	5	1 6	300	...	38·05	181	153

DIVISION XVII—NORTH-EASTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	NAIRN—(*contd.*).		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	2.—NAIRN & C. 61 sq. mi.								
D	Cawdor (Auchindoune)	Col. the Hon. I. M. Campbell	5	1 0	425	...	38·63	227	154
D	Cawdor Castle	Mr. James Taylor	5	0 9	225	29·2	35·92	198	146
M	Nairn (Urchany Reservoir)	The Town Council	5	1 0	291	...	35·61	...	...
D	Nairn (Firhall)	Lt.-Col. Angus Cameron	5	1 0	55	24·7	32·51	207	146
D	Nairn (Balblair)	Major R. H. Allanby	5	1 9	94	24·7	32·63	204	151
D	Nairn (Achareidh)	Major K. S. Clarke	8	1 0	59	23·9	29·27	204	149
D	NAIRN (Golf Course)	Town Clerk	8	1 0	20	22·5	28·36	190	129

DIVISION XVIII—NORTH-WESTERN COUNTIES

	INVERNESS. (Area, 4,146 sq. mi.)								
	1.—TAY. Tummel. 28 sq. mi.								
	2.—SPEY. Right Bank Tributaries. 437 sq. mi.								
D	DALWHINNIE	G. Ritchie, Esq., (M.O.)	8	1 0	1176	46·7	62·51	211	196
M	Loch Seilich (Gaick Lodge)	N. of S. Hydro-Electric Bd.	5	1 0	1430	...	67·02	...	...
D	Loch an t-Seilich	N. of S. Hydro-Electric Bd.	5	1 0	1430	46·6	58·63	234	180
M	§Loch Cuaich	N. of S. Hydro-Electric Bd.	5	1 0	1340	...	53·91	...	...
D	Glenshero	British Aluminium Co. Ltd.	8	0 10	880	45·9	55·69	226	186
D	Rothiemurchus (The Polchar)	Capt. H. G. Briggs	5	1 0	775	...	38·08	211	150
d	Loch Morlich (Badaguish)	J. Fraser, Esq.	5	1 0	1100	...	39·80	...	...
	3.—SPEY. Left Bank Tributaries. 257 sq. mi.								
D	Cluny Castle	G. A. Sinclair, Esq.	5	1 0	816	39·9	49·22	259	191
M	Loch Spey	British Aluminium Co. Ltd.	5	1 0	1164	64·9	82·40	...	...
M	Glen Spey (Mealgarve)	British Aluminium Co. Ltd.	8	1 0	1135	55·2	67·95	...	...
D	Kingussie	Miss Jessie Dallas	8	1 0	800	...	41·87	251	183
	4.—FINDHORN. 164 sq. mi.								
D	Tomatin (Dalmigavie Lodge)	C. W. Christie-Miller, Esq.	5	1 2	1150	42·5	42·63	224	175
	5.—NAIRN & C. 131 sq. mi.								
	6.—NESS. Right Bank Tributaries. 252 sq. mi.								
D	Fort Augustus (Ardachie)	A. T. Bruen, Esq.	5	1 0	100	46·5	63·69	249	210
D	Loch Ness (Garthbeg)	British Aluminium Co. Ltd.	8	1 0	630	40·1	57·84	253	198
D	Loch Ness (Foyers)	British Aluminium Co. Ltd.	8	1 0	52	38·2	56·34	235	178
D	Loch Ness (Aberchalder)	British Aluminium Co. Ltd.	8	1 0	700	39·4	53·73	241	179
	Loch Ashie	A. McKenzie, Esq.	5	1 0	718	33·0	43·38	...	...
D	INVERNESS (Culduthel Reservoir)	Town Council	5	1 0	242	27.6	37·02	207	153
	7.—NESS. Garry & C. 185 sq. mi.								
d	Loch Quoich (Kinlochquoich)	Major Cameron of Lochiel	5	1 0	580	117·1	143·70	...	224
D	Loch Quoich (Glenquoich)	Mr. R. McRae*	5	1 2	569	110·7	124·04	241	227
	8.—NESS. Moriston. 120 sq. mi.								
d	Glenmoriston (Invermoriston Hotel)	R. Fullarton, Esq.	5	1 0	70	44·0	62·42	201	191
	9.—NESS. Enrick. 131 sq. mi.								
M	Glen Urquhart Forest	G. Munro, Esq.	5	1 0	1000	...	60·90	...	...
d	Glen Urquhart House	G. H. Wilkinson, Esq.	5	1 3	470	36·1	48·29	...	...

§ Turf wall round gauge. * *Per* Capt. W. N. McClean (River Flow Records).

DIVISION XVIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	INVERNESS—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	10.—BEAULY. 341 sq. mi.								
M	Glen Affric (Creag na Calman)	N. of S. Hydro-Electric Bd.	5	1 0	1050	...	86·80	...	...
D	Glen Affric (Affric Lodge)	N. of S. Hydro-Electric Bd.	5	1 0	765	59·4	71·94	223	215
M	Glen Fiadh	N. of S. Hydro-Electric Bd.	5	1 0	1550	...	97·90	...	...
D	Glen Affric (Achagate)	N. of S. Hydro-Electric Bd.	5	1 0	721	56·2	63·87	242	211
D	Cannich (Balchadaich)	Forestry Commission	5	1 0	350	...	58·41	244	209
D	Cannich (Fasnakyle)	N. of S. Hydro-Electric Bd.	5	1 0	264	41·9	52·83	242	193
	Glen Affric (Loch na Gobhlaig)	N. of S. Hydro-Electric Bd.	5	1 0	2050	...	75·55	...	...
D	Glen Cannich (Cozac Old Lodge)	N. of S. Hydro-Electric Bd.	5	1 0	714	...	98·43?	245	219
D	Arisaig (Traig House)	Mrs. Vera Shaw Stewart	5	1 0	20	...	65·67	220	206
	11.—CROMARTY FIRTH. 13 sq. mi.								
	12.—SOUND OF SLEAT. 259 sq. mi.								
d	Loch Morar (Rhuban)	N. of S. Hydro-Electric Bd.	5	1 0	52	...	78·17	243	207
D	Loch Nevis (Inverie Gardens)	Mr. C. Broadfoot	5	1 0	15	84·0	95·45	226	214
D	Loch Hourn (Kinlochourn)	Ewen MacRae, Esq.	5	1 0	18	100·7	124·53	238	229
	13.—SOUND OF ARISAIG. 126 sq. mi.								
D	Moidart (Glenmoidart)	Miss Margery Lees	5	1 0	200	84·5	89·52	258	220
D	Loch Ailort (Polnish)	C. M. Wedderburn, Esq.	5	1 0	120	78·0	84·07	246	214
D	Loch Ailort (Arienskill)	K. Macdonald, Esq.	5	1 0	82	83·2	99·73	237	211
	Arisaig (Faire-na-Sguir)	Miss C. G. Astley-Nicholson	5	1 0	30	54·0	61·84	...	...
D	Arisaig House	Mr. H. Milne	5	1 0	40	62·9	68·53	250	206
D	Arisaig (Larrachmhor)	J. Brennan, Esq.	5	1 0	12	...	70·77	247	214
	14.—LOCH LINNHE. Right Bank Tributaries. 48 sq. mi.								
D	Loch Eil (Achdalieu)	Col. Sir D. W. Cameron of Lochiel	5	1 0	100	64·5	81·73	242	209
	15.—LOCHY. Right Bank Tributaries. 143 sq. mi.								
D	Glen Loy (Erracht)	Major E. C. Cameron	5	1 0	150	79·8	101·90	250	223
D	Loch Arkaig (Achnacarry)	Col. Sir D. W. Cameron of Lochiel	5	1 0	128	80·6	97·87	247	213
D	Clunes (Loch Lochy W.)	Col. Sir D. W. Cameron of Lochiel	5	1 6	110	73·6	93·73	240	222
M	Clunes (Kilmallie)	A. W. Officier, Esq.	5	1 0	1050	...	91·45	...	...
	16.—LOCHY. Left Bank Tributaries. 362 sq. mi.								
M	Loch Treig (Creaguaineach)	British Aluminium Co. Ltd.	5	1 0	825	74·0	88·39	...	...
	Fort William (Allt a'Mhuilinn)	British Aluminium Co., Ltd.	8	1 0	1000	83·6	91·61	...	...
D	Fort William (The Factory)	British Aluminium Co. Ltd.	8	1 0	75	73·0	83·79	249	213
D	Loch Treig (Fersit)	British Aluminium Co. Ltd.	8	1 0	850	62·9	77·06	232	203
M	Tulloch (Allt Laire)	British Aluminium Co. Ltd.	5	1 0	1050	60·7	78·37	...	...
	Loch Pattack	Sir J. F. Ramsden, Bt.	5	0 9	1420	61·3	74·65	...	...
M	Glen Spean (Craigbeg)	British Aluminium Co. Ltd.	8	1 0	860	54·9	73·10	...	...
D	Spean Bridge (Spean Lodge)	Mr. Donald Cameron	5	1 3	200	64·5	82·01	243	206
D	Spean Bridge (Gairlochy)	J. McLaren, Esq.	5	1 0	100	74·2	94·82	242	220
D	Loch Laggan (Ardverikie)	Sir J. F. Ramsden, Bt.	5	0 6	838	54·0	68·41	227	190
	17.—LOCH LINNHE. Left Bank Tributaries. 120 sq. mi.								
D	ONICH	Forestry Commission	5	1 3	48	77·4	95·58	231	222
D	Onich (Corran Gardens)	Mr. R. W. Paine	5	1 0	72	...	95·04	249	214
D	Glenleven (Blackwater Dam, N.)	British Aluminium Co. Ltd.	8	1 0	1072	85·5	115·33	291	232
D	FORT WILLIAM (Teviot)	J. W. Ainslie, Esq.	8	1 0	34	78·9	98·36	258	212
D	Fort William (Glasdrum)	British Aluminium Co. Ltd.	5	1 0	216	...	99·07	264	224

DIVISION XVIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in or more
	INVERNESS—(*contd.*).		*in.*	*ft.* *in.*	*ft.*	*in.*	*in.*		
	18.—INSULAR. INNER HEBRIDES. 786 sq. mi.								
D	Isle of Eigg	Rt. Hon. Viscount Runciman	5	1 0	150	59·2	70·05	236	208
D	Skye (Kyleakin Dunringell)	J. Conyngham Greene, Esq.	5	1 0	70	...	71·06	221	204
	Oronsay Lighthouse	Com'rs. of N. Lighthouses	5	0 6	10	*52·7*	68·89	...	197
D	Skye (Glenbrittle)	Mr. Ewen MacRae	5	1 0	30	...	96·57	257	226
D	Skye (Broadford)	Dr. B. P. Miesner	5	1 0	23	76·8	90·98	240	216
D	Skye (Grula)	Forestry Commission	5	1 0	60	...	103·16	272	226
d	Skye (Tallisker)	Angus McLeod, Esq.	5	1 0	15	...	78·00	...	206
D	Skye (Loch Harport, Carbost)	Mr. D. M. MacCaskill	5	1 0	160	...	104·81	256	224
D	Skye (Portree)	Alan Mackinnon, Esq.	5	1 0	65	73·1	87·45	246	218
	Skye (Vatternish, Hallistra)	Charles Bain, Esq.	5	1 0	100	...	58·19	...	...
D	Skye (DUNTUILM, Kilmuir)	Seton Gordon, Esq., C.B.E.	5	1 0	294	53·5	62·71	257	217
	19.—INSULAR. OUTER HEBRIDES. 243 sq. mi.								
D	Vatersay Schoolhouse	J. Campbell, Esq.	5	0 8	20	...	54·18	231	203
D	BENBECULA (Airfield)	Meteorological Office	5	1 0	16	...	55·98	260	210
D	North Uist (Newton)	J. MacAskill, Esq.	5	1 0	41	45·2	53·73	236	190
	ROSS & CROMARTY. (Area, 3,237 sq. mi.)								
	1.—NESS. Moriston. 35 sq. mi.								
	2.—BEAULY. 109 sq. mi.								
	Glen Cannich (Lungard)	N. of S. Hydro-Electric Bd.	5	1 0	820	...	105·95	...	...
D	Glen Cannich (Benula)	N. of S. Hydro-Electric Bd.	5	1 0	712	...	94·79	253	220
	Cannich (Coire Bhig)	N. of S. Hydro-Electric Bd.	5	1 0	2250	...	122·10	...	...
D	Loch Monar (Patt)	I. Mackay, Esq.	5	1 0	700	...	91·76	248	223
	3.—MORAY FIRTH COAST STREAMS. 64 sq. mi.								
D	FORTROSE	Rev. W. Craig	5	1 0	69	23·8	29·76	229	137
d	Fearn (Geanies)	Capt. K. Murray, J.P.	5	0 11	200	22·8	26·83	...	142
D	**4.—CROMARTY FIRTH. 714 sq. mi.**								
D	Muir of Ord (Fairburn)	Major J. S. Stirling	5	1 0	500	36·2	46·48	240	178
D	Dalbraec Lodge	N. of S. Hydro-Electric Bd.	5	1 0	500	...	61·37	237	196
D	Luib (Loch Gowan)	N. of S. Hydro-Electric Bd.	5	1 0	625	...	88·59	242	228
D	Lochluichart (East)	N. of S. Hydro-Electric Bd.	5	1 0	165	39·5	48·84	260	178
d	Achnasheen (Druimdhu)	N. of S. Hydro-Electric Bd.	5	1 0	...	...	80·90?	217	207
D	Loch Fannich (Nest)	N. of S. Hydro Electric Bd.	5	1 0	850	...	94·41	260	242
d	Aultdearg (Loch Luichart)	N. of S. Hydro-Electric Bd.	5	1 0	725	...	65·65	...	226
M	Garbat (Dubh Choille)	Forestry Commission	5	1 0	1150	...	56·01	...	...
D	Garbat Forest (Longart)	Forestry Commission	5	1 0	500	...	50·75	223	204
D	Strath Vaich Lodge	N. of S. Hydro-Electric Bd.	5	1 0	790	...	60·25	238	197
D	Loch Glass (Wyvis Lodge)	Major J. R. Abbey	5	1 0	720	47·9	60·56	249	208
d	Alness (Ardross School)	J. H. Ross, Esq.	5	1 0	490	...	36·57	218	156
	Luibachleggan (Strathvaich)	N. of S. Hydro-Electric Bd.	5	1 0	830	...	63·87	...	...
	5.—DORNOCH FIRTH. 355 sq. mi.								
D	Tain (Tarlogie House)	Lt.-Col. A. K. McLeod	5	1 3	140	...	33·60	214	142
	Tarbetness	Com'rs. of N. Lighthouses	5	1 3	62	22·2	24·55	135	115
	6.—ENARD BAY. 78 sq. mi.								
	7.—LOCH BROOM & C. 367 sq. mi.								
d	Loch Droma	N. of S. Hydro-Electric Bd.	5	1 0	940	...	74·90	222	215
D	Inverbroom (Glackour)	Forestry Commission	5	1 0	65	...	66·30	238	198
D	Dundonnell House	Lt.-Col. Sir T. M. Peto, Bt.	5	1 0	150	...	78·06	259	218
D	Laide (Gruinard)	J. H. Cairns, Esq.	5	0 10	60	...	56·59	213	196
D	Ullapool	Dr. R. McLean	5	1 6	75	46·5	41·81	230	180

DIVISION XVIII—NORTH-WESTERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Rain-gauge Height of Rim above Ground	Rain-gauge Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	1948 Days with ·01 in. or more	1948 Days with ·04 in. or more
	ROSS & CROMARTY—(*contd*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	8.—LOCH EWE, LOCH TORRIDON & C. 423 sq. mi.								
D	Gairloch (Opinan)	Miss R. MacAuley	5	1	60	44·2	43·87	221	180
D	Aultbea (Aird Point)	P. A. Rayfield, Esq.	5	1	25	...	56·96	243	193
	9.—LOCH CARRON, LOCH ALSH & C. 401 sq. mi.								
D	Glenshiel (Kyle)	Mr. M. Macrae*	5	1	650	135·2	144·66	274	253
D	Loch Duich (Ratagan)	Forestry Commission	5	1	12	82·3	83·78	226	215
M	Loch Duich (Druim Sgurr)	Forestry Commission	5	1	1000	...	88·40	...	...
D	Loch Duich (Inverinate)	J. Finlayson, Esq.	5	1	28	83·2	93·60	220	213
D	Loch Alsh (Nostie)	N. of S. Hydro-Electric Bd.	5	0 11	25	...	76·66	217	204
D	Stromferry (Achmore)	Forestry Commission	5	0 8	100	...	75·13	227	201
D	Applecross Gardens	Mr. J. McCowan	5	1 6	70	57·3	70·01	258	211
D	ACHNASHELLACH	Forestry Commission	5	1 0	225	79·9	94·12	262	219
M	§Coulin Pass	Forestry Commission	5	1 0	950	...	103·92	...	...
	10.—INSULAR. OUTER HEBRIDES. 691 sq. mi.								
D	STORNOWAY Airfield	(+A) Meteorological Office	5	1 0	10	47·3	48·92	260	195

DIVISION XIX—NORTHERN COUNTIES

	SUTHERLAND. (Area, 2,080 sq. mi.)								
	1.—DORNOCH FIRTH. 413 sq. mi.								
D	Dornoch (Ospisdale)	F. N. Sudlow, Esq.	8	1 2	50	...	35·66	235	156
D	Strath Oykell (Rosehall)	Mr. A. Munro	5	1 0	200	...	42·53	235	182
D	Lairg	A. Gunn, Esq.	5	1 0	330	37·3	41·89	207	172
	2.—FLEET, BRORA & C. 309 sq. mi.								
	Loch Merkland	W. Mackay, Esq.	5	1 0	380	...	73·15	...	...
	3.—HELMSDALE & C. 226 sq. mi.								
d	Kinbrace (Borrobol Lodge)	Sir Roderick Wigan, Bt.	5	1 6	340	...	35·72	...	...
D	Kinbrace (Auchintoul)	Ian Boyd, Esq.	5	1 0	420	...	39·84	269	173
	4.—NORTH COAST STREAMS. 736 sq. mi.								
D	Loch Naver (Althaharra)	Mr. W. Ross	5	1 0	280	...	41·69	256	205
D	Skerray (Borgie)	Forestry Commission	5	1 0	110	37·5	41·62	223	193
D	Tongue	Mr. J. Campbell	5	1 0	40	...	44·59	230	193
D	STRATHY (Bowside)	Dept. of Agriculture	5	1 0	125	...	38·00	252	194
D	Durness	W. M. Hames, Esq.	5	1 0	105	...	52·89	253	213
D	CAPE WRATH	Principal Keeper (M.O.)	5	1 0	363	...	49·17	248	216
	5.—LOCH LAXFORD & C. 256 sq. mi.								
D	Drumbeg	K. Matheson, Esq.	5	1 0	200	...	49·81	245	205
D	Loch More (Achfary)	Matthew Elliot, Esq.	5	1 0	137	75·8	85·02	231	215
	6.—ENARD BAY. 138 sq. mi.								
D	Elphin	Capt. H. MacLeod	5	1 2	750	...	72·43	224	218
	Lochinver (Bank House)	G. W. Gordon, Esq., J.P.	5	1 0	22	...	50·90	...	...
	7.—INSULAR. 2 sq. mi.								

* *Per* Capt. W. N. McClean. § Turf wall round gauge.

DIVISION XIX—NORTHERN COUNTIES—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Rain-gauge: Height of Rim above Ground	Rain-gauge: Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	1948: Days with ·01 in. or more	1948: Days with ·04 in. or more
	CAITHNESS. (Area, 696 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—BERRIEDALE, DUNBEATH & C. 169 sq. mi.								
M	Berriedale (Langwell)	Duke of Portland	5	1 6	150	33·8	30·42	...	...
	Clythness	Com'rs. of N. Lighthouses	5	1 5	133	29·6	30·14	257	155
	2.—WICK & C. 184 sq. mi.								
D	WICK Airfield	Meteorological Office	5	1 0	119	29·9	30·78	228	162
D	Lyth (Milton House)	D. Mackay, Esq.	5	1 0	100	...	31·21	162	138
	3.—THURSO & C. 238 sq. mi.								
d	Halkirk (Westerdale)	Rev. A. S. Maciver	5	1 0	195	...	31·05	(224)	(182)
D	Thurso (Buckies)	J. H. M. Davidson, Esq.	5	0 11	240	39·0	32·57	218	181
	Thurso (Holburn Head)	Com'rs. of N. Lighthouses	5	0 8	68	...	33·97	184	145
	Dunnet Head	Com'rs. of N. Lighthouses	5	1 0	331	30·2	31·37	161	136
	Duncansby Head	Com'rs. of N. Lighthouses	5	... ...	196	31·4	28·04	187	163
	4.—FORSS & C. 104 sq. mi.								
d	Reay (The Manse)	Rev. A. P. Bogie	9	1 0	49	36·2	35·06	...	...
	5.—INSULAR. 1 sq. mi.								
	ORKNEY. (Area, 389 sq. mi.)								
	Pentland Skerries Lighthouse	Com'rs. of N. Lighthouses	5	3 0	70	...	31·77	...	152
	Hoy (Cantick Head)	Com'rs. of N. Lighthouses	5	3 10	68	32·9	36·20	189	171
	Hoy (Graemsay Sound, High)	Com'rs. of N. Lighthouses	5	1 4	29	34·8	44·29	252	207
	Hoy (Graemsay Sound, Low)	Com'rs. of N. Lighthouses	8	4 4	40	35·9	44·64	243	194
D	Hatston Airport	Meteorological Office	5	1 0	35	...	42·69	236	185
D	Stenness	W. J. Moar, Esq.	5	1 0	20	...	38·70	248	183
	Hellyar Holm	Com'rs. of N. Lighthouses	5	1 3	35	32·9	36·00	231	169
M	Shapinsay (Balfour Castle)	Mr. J. W. Liddell	5	0 5	50	32·0	32·66	...	...
	Sanday (Start Point)	Com'rs. of N. Lighthouses	5	1 0	27	31·1	35·39	226	181
	North Ronaldshay	Com'rs. of N. Lighthouses	5	0 9	22	32·8	35·09	208	152
	SHETLAND. (Area, 558 sq. mi.)								
D	LERWICK OBSERVATORY	(+A) Meteorological Office	8	1 0	269	38·1	44·72	249	183
D	Bixter (Vementry)	Andrew Tait, Esq.	5	1 1	25	37·2	43·58	239	195
D	BALTASOUND (Halligarth)	Dr. T. E. Saxby, F.R.F.P.S.	5	1 0	30	42·1	42·56	283	196

Northern Ireland

	FERMANAGH. (Area, 713 sq. mi.)								
	1.—ERNE. 667 sq. mi.								
D	Newtownbutler (Crom Castle)	The Earl of Erne	5	1 0	200	38·7	44·09	248	179
D	Florencecourt	Earl of Enniskillen	5	1 0	269	*48·5*	48·96	240	185
D	Enniskillen (Castle Coole)	Lady Margaret Lowry-Corry	5	1 0	240	*41·0*	40·10	256	175
D	Colebrooke	Sir Basil Brooke, Bt.	5	1 0	250	...	40·23	237	175
d	Ballinamallard (Rossfad)	Col. H. S. C. Richardson	5	0 11	200	...	43·05	...	164
D	Belleek (Roscor)	J. H. Dick, Esq.	5	1 0	500	...	48·42	235	201
D	Belleek	T. Beacom, Esq.	5	1 2	150	*45·5*	48·75	243	219
D	CASTLE ARCHDALE	(+A) Meteorological Office	5	1 0	240	...	41·01	236	185

NORTHERN IRELAND—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	FERMANAGH—(*contd.*).		*in.*	*ft.*	*ft.*	*in.*	*in.*		
	2.—DROWES & C. 46 sq. mi.								
	ARMAGH. (Area, 514 sq. mi.)								
	1.—DUNDALK BAY. 118 sq. mi.								
	2.—CARLINGFORD LOUGH. 23 sq. mi.								
D	Bessbrook (The Woodhouse) ...	J. S. W. Richardson, Esq.	5	1 0	260	*37·2*	46·78	222	178
	3.—BANN. Lough Neagh, East. 37 sq. mi.								
	4.—BANN. UPPER. 144 sq. mi.								
D	Markethill (Whitecross) ...	Gov. of Northern Ireland ...	5	1 0	400	...	50·46	211	180
	5.—BANN. Lough Neagh, West. 192 sq. mi.								
D	Keady (Derrynoose Rectory) ...	Rev. T. F. Campbell ...	5	1 0	380	...	38·06	243	174
D	Tynan Abbey	Sir Norman Stronge, Bart.	5	1 0	167	...	37·87	215	169
D	ARMAGH (Observatory) ...	(+A) Director of Obsy. (M.O.) ...	8	1 0	204	31·7	38·27	204	177
D	Richhill (Sandymount) ...	Mrs. C. B. Lamb	5	1 6	200	*29·3*	35·51	182	151
	DOWN. (Area, 961 sq. mi.)								
	1.—CARLINGFORD LOUGH. 104 sq. mi.								
D	Newry (Bridge Street House) ...	C. Blaney, Esq.	5	1 0	23	38·1	41·13	180	150
	2.—DUNDRUM BAY & C. 173 sq. mi.								
D	Silent Valley (Belfast W.W.) ...	S.H.W.Middleton,Esq.,C.E.	5	1 0	457	...	57·81	232	172
D	Annalong (Belfast W.W.) ...	S.H.W.Middleton,Esq.,C.E.	5	1 0	435	*47·5*	58·69	229	181
	Mourne Mount'ns (Slieve Lamagan)	S.H.W.Middleton,Esq.,C.E.	5	1 0	1320	...	77·65	...	...
	Mourne Mount'ns (Lough Shannagh)	S.H.W.Middleton,Esq.,C.E.	5	1 0	1280	65·6	77·80	...	...
	Mourne Mount'ns (Slieve Bearnagh)	S.H.W.Middleton,Esq.,C.E.	5	1 0	1954	...	76·00?	...	...
D	Seaforde	T. W. Forde, Esq.	8	1 0	180	38·3	43·04	187	169
	3.—STRANGFORD LOUGH. 260 sq. mi.								
	4.—COAST STREAMS. 47 sq. mi.								
D	Donaghadee (Craigmore)	Miss E. E. Coates	5	1 0	60	*30·6*	36·37	219	151
D	Donaghadee (Orlock Reservoir) ...	Resident Engineer	5	1 0	43	...	33·78	199	150
	5.—BELFAST LOUGH. 206 sq. mi.								
D	Dromara...	Gov. of Northern Ireland ...	5	1 0	400	...	47·30	248	177
	Annaghanoon	W. J. Gibson, Esq. ...	5	1 0	200	...	36·64	...	...
D	Waringstown (The Forge)	W. J. Gibson, Esq. ...	5	1 0	184	32·2	37·82	230	165
D	HILLSBOROUGH (Ag. Research Inst.) ...	Secretary	5	1 0	388	...	41·43	222	167
D	Knock (Cherryvalley Park)	W. R. Carmody, Esq. ...	5	1 1	120	...	39·90	222	165
d	Bangor (Garth House School) ...	Miss E. N. Swanson ...	5	... ...	120	...	37·77	...	...
	6.—BANN. Lough Neagh East. 7 sq. mi.								
	7.—BANN. UPPER. 162 sq. mi.								
	8.—INSULAR. 2 sq. mi.								

NORTHERN IRELAND—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge: Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948: Rainfall	Days with ·01 in. or more	Days with ·04 in. or more
	ANTRIM. (Area, 1,193 sq. mi.)		*in.*	*ft. in.*	*ft.*	*in.*	*in.*		
	1.—BELFAST LOUGH. 107 sq. mi.								
D	LISBURN SCHOOL	Headmaster	8	1 0	201	34·1	38·20	209	167
D	Lambeg (Glenmore House)	Linen Industry Res. Assn.	8	0 11	100	...	36·11	219	168
D	Dunmurry (Warren House)	Col. H. R. Charley	5	0 10	110	...	43·62	226	175
D	Dunmurry (Lagmore)	S.H.W.Middleton,Esq.,C.E.	5	1 0	385	...	47·86	237	192
D	Belfast (Queen's University)	S. Nelson, Esq.	5	1 0	62	34·5	38·11	197	162
D	Belfast (Sewage Works)	City Surveyor	8	1 0	26	*35·8*	41·51	211	161
D	Belfast (Oldpark Filters)	S.H.W.Middleton,Esq.,C.E.	5	1 0	203	*39·0*	50·08	240	189
D	*Carrickfergus (Dorisland)	S.H.W.Middleton,Esq.,C.E.	5	1 0	271	...	45·85	240	183
D	Carrickfergus (Knockagh)	S.H.W.Middleton,Esq.,C.E.	5	1 0	723	...	49·74	239	187
D	Carrickfergus (S. Woodburn)	S.H.W.Middleton,Esq.,C.E.	5	1 0	640	*44·5*	53·08	256	190
D	Carrickfergus (N. Woodburn)	S.H.W.Middleton,Esq.,C.E.	5	1 0	735	*45·5*	51·60	253	192
D	Carrickfergus (Copeland)	S.H.W.Middleton,Esq.,C.E.	5	1 0	427	*40·0*	47·41	250	186
D	Carrickfergus (Lough Mourne)	S.H.W.Middleton,Esq.,C.E.	5	1 0	596	*42·5*	52·12	268	203
	2.—GLENARM & C. 186 sq. mi.								
D	Larne (Sallagh Springs)	J. E. Croasdaile, Esq., M.A.	5	1 0	566	*50·0*	46·51	220	186
	3.—BUSH & C. 193 sq. mi.								
D	Ballycastle (Coolgreany)	E. R. Casement, Esq.	5	1 0	90	...	41·60	213	184
	4.—BANN. LOWER. 112 sq. mi.								
D	Toomebridge	Gov. of Northern Ireland	5	1 0	59	...	39·49	186	164
	5.—BANN. Lough Neagh, East. 590 sq. mi.								
D	Stonyford (Belfast W.W.)	S.H.W.Middleton,Esq.,C.E.	5	1 0	453	...	46·71	249	179
D	Leathemstown (Belfast W.W.)	S.H.W.Middleton,Esq.,C.E.	5	1 0	534	...	49·11	250	176
D	ALDERGROVE (Airfield)	(+A) Meteorological Office	5	1 0	220	33·0	35·39	210	160
D	Randalstown	Old Bleach Linen Co.	5	1 0	100	...	43·32	218	168
D	Ballymena (Harryville)	R. T. Campbell, Esq.	5	1 5	150	41·5	42·47	237	176
D	Broughshane (Quolie)	H. W. Craig, Esq., C.E.	5	1 6	864	*47·3*	53·09	253	202
	6.—INSULAR. 5 sq. mi.								
	LONDONDERRY. (Area, 816 sq. mi.)								
	1.—LOUGH SWILLY. 6 sq. mi.								
D	Londonderry (Dunruadh)	J. H. Welch, Esq.	5	0 6	150	*40·5*	40·78	246	181
	2.—BUSH & C. 9 sq. mi.								
	3.—BANN. LOWER. 240 sq. mi.								
D	Upperlands (Ardtara)	H. J. Clark, Esq.	5	2 0	250	...	44·15	225	187
D	GARVAGH (MONEYDIG)	J. Porter, Esq.	5	1 0	121	38·8	42·50	238	180
D	Coleraine (The Cutts)	Govt. of Northern Ireland	5	1 0	22	...	43·13	242	190
D	Coleraine (Ingledene)	W. R. Johnston, Esq.	5	3 4	55	...	43·39	241	193
	4.—BANN, Lough Neagh, West 196 sq. mi.								
	5.—FOYLE & C. 365 sq. mi.								
M	Glenedra (Spelhoagh Mountain)	Londonderry C.B.C.	5	1 0	1333	*60·0*	69·92	...	...
M	Glenedra Hill	Londonderry C.B.C.	5	1 0	1333	*62·5*	74·46	...	...
M	Glenedra Lodge	Londonderry C.B.C.	5	1 0	950	57·0	62·84	...	...
M	†Glenedra (Altagarran Mountain)	Londonderry C.B.C.	5	1 0	1230	...	61·39	...	...
M	Dungiven (Labbyheige)	Londonderry C.B.C.	5	1 0	1150	...	(60·41)	...	...

* Gauge over-exposed. † Gauge over-exposed on moor

NORTHERN IRELAND—(*contd.*)

	STATIONS	AUTHORITIES	Rain-gauge Diam.	Height of Rim above Ground	Height of Ground above Sea Level	Average Rainfall	1948 Rainfall	Days with .01 in. or more	Days with .04 in. or more
	LONDONDERRY—(*contd.*).								
	5.—FOYLE & C.—(*contd.*).								
M	Altnaheglish (Altabrogy Burn)	Londonderry C.B.C.	5	1 0	967	...	59·67	...	...
M	Glenedra Intake	Londonderry C.B.C.	5	1 0	740	...	59·99	...	...
M	Altnaheglish (Glack Burn) ...	Londonderry C.B.C.	5	1 0	967	...	58·72	...	...
D	Dungiven (Banagher Filters) ...	Londonderry C.B.C.	5	1 0	373	...	51·25	292	232
D	Londonderry (Creggan Res.) ...	Mr. W. Hutchison	8	1 0	325	41·8	50·98	283	223
D	BALLYKELLY (Airfield)	Meteorological Office	5	1 0	10	...	35·65	223	175
D	Limavady (Drenagh)	Mrs. T. McCausland	5	1 6	80	37·0	41·52	239	193
D	CASTLEROCK (Craighead) ...	E. G. Box, Esq. ...	5	1 0	57	...	42·56	235	189
	TYRONE. (Area, 1,257 sq. mi.)								
	1.—ERNE. 46 sq. mi.								
	2.—BANN. Lough Neagh, West. 442 sq. mi.								
D	Dungannon (Aloha)	Major R. Stevenson	5	1 0	275	...	41·88	233	174
D	Castlecaulfield (Parkanaur) ...	Major Y. A. Burges	8	0 6	250	...	41·86	221	173
	3.—FOYLE. 769 sq. mi.								
D	Omagh (Edenfel)	Mrs. F. M. Hammond Smith	8	1 0	280	40·1	45·13	244	202
D	Sion Mills (Sion House) ...	Capt. J. C. Herdman	5	1 0	100	39·1	44·36	232	198

BRITISH RAINFALL, 1948

PART III

SNOWFALL IN THE BRITISH ISLES DURING THE DECADE 1936 to 1945

By L. C. W. Bonacina, F.R.Met.S.

This third historical survey of snowfall in the British Isles follows the general lines of those published in *British Rainfall* 1927 and 1936. The precise form, however, which the Report has taken, as compared with the others, has been indicated by circumstances. It has been considered expedient to abbreviate the Chronicle (Section I) limiting it to outstanding events and points of special interest partly because the *Monthly and Annual Weather Reports of the Meteorological Office* have included a good deal of corresponding information, and partly because war-time suppression of weather news rendered the collection of information more than usually difficult.

GENERAL NOTE ON THE DECADE, 1935–6 TO 1944–5

The decade on the whole was a decidedly snowy one having several severe or partially severe winters. The seasonal incidence of the snowfall was, moreover, more normal than in several previous decades, showing a tendency for the maximum depth in winter rather than the early spring. In fact the only really snowy March was that of 1937, and there have been no Aprils comparable in severity with those of 1892, 1908, 1911, 1917 or 1919. So far, too, as the writer has been able to judge, the snowfalls were more evenly distributed than in some earlier decades and there was a closer relationship to the normal isotherms over the country. At least two local geographical anomalies have been rectified. The snowlessness of West Lancashire, stressed in the last Report, was made good by the great blizzards of January 1940 and January 1942 in that area, and the London district also had its share of notable snowfall.

SECTION I—CHRONICLE OF CHIEF EVENTS

The seasons are arranged in three grades as " snowy ", " ordinary " or " snowless ", indicated by the printing of their dates in **thick type,** ordinary type or *italics* respectively. The classification of the seasons in these three grades does not strictly indicate fluctuations above or below normal conditions of snowfall, since these have not been determined for the British Isles according to any adequate criterion. It gives, however, a rather more absolute climatological picture than would mere fluctuations above or below an average. Thus a winter classed as " snowy " is one in which snow, taking the British Isles as a whole, was a conspicuous element of the weather either as regards general frequency and quantity through the season or as regards one or two outstanding snowstorms affecting a wide area ; a winter classed as " snowless " is one in which the snowfalls were

practically all relatively slight and localized, or, if heavy, confined to high mountain levels ; and a winter classed as " ordinary " is one in which snowfall was conspicuous neither for abundance nor absence over the country as a whole. In the snowy seasons so defined the snowfall might be regarded as notable even from the standpoint of colder and snowier countries, in the snowless seasons it would not be notable even from the standpoint of warmer and less snowy countries, and in the ordinary seasons it might interest visitors from warmer climes but not from colder.

1935–36—December, January, February.

This was a fairly normal season with some heavy snowfalls up and down the country especially in mountainous northern districts. In December more southern parts also had notable falls, as in east Kent around the 13th, and in central Ireland a few days later. January brought abundant snowfall to S.W. England during the second week, and to the north and Midlands in the third week, when London had more snow lying (4 to 6 inches) than at any time since the Christmas blizzard of 1927. Later in the month the Lake and Peak districts were heavily blanketed. During February snow was fairly widespread, and especially heavy in N.E. England. There was also a good deal of snow in Wessex and westward into Devonshire, where drifts eight feet deep were noted at Mary Tavy, near Tavistock. At the beginning of March there were newspaper photographs of enormous snowdrifts on moorland roads in Yorkshire, Cumberland and North Wales.

1936–37—DECEMBER, JANUARY, FEBRUARY AND MARCH.

A season of heavy snowfall on the whole with interesting features. After definite snowfalls at higher levels during the autumn months, even as early as the end of September, the first general storm affected the north during the first week in December. Most severe in the north of Scotland including the Orkneys, its fringes extended to the south of England. The early part of January was mild and rainy but just cold enough for snowstorms of some intensity at the higher levels. Thus a man was reported lost in the Cairngorms on the 2nd, and Upper Teesdale in the Pennines was found blocked by Mr. Gordon Manley on the 4th. Towards the middle of the month the weather became decidedly colder and the snowfalls more general and lasting. The first notable one was in the Midlands, Wales and west of England on the 20th, the second on the 27th worked up slowly over the country from the south-west with a piercing N.E. wind. Dartmoor and Exmoor were deeply mantled and so were the chalk Downs further east, though the Thames Basin came off lightly. February was not particularly eventful till the end when a preliminary drifting blizzard in the Grampians on the 25th was succeeded on the 28th by a northerly blizzard over practically the whole of the British Isles. The snow was generally deep and many roads and railways were blocked. The storm heralded the snowiest March in the decade. (see Section II).

1937–38—NOVEMBER, DECEMBER, JANUARY, FEBRUARY.

This winter is ranked as a snowy one chiefly on the strength of the severe December with its fierce snowstorms in most parts of the British Isles (Section II). In November during the third week there was considerable snowfall on high ground. In January and February snow was frequent in many parts of the country but there were no outstanding events. There was, however, a good deal of snow in the south of England in mid-February with heavy drifting in Kent. March was warm, sunny and snowless—the very antithesis of its predecessor.

1938–39—DECEMBER, JANUARY.

This winter claims the distinction of providing the most genuine and general example of the Old-fashioned, White Christmas of the twentieth century. The great

December snowstorms and those of January combined to give the season a decidedly wintry character. (Section II). There were also autumn and spring snowfalls in the Highlands and elsewhere in elevated country.

1939–40—DECEMBER, JANUARY, FEBRUARY, MARCH.

The first of three consecutive very cold winters was only conspicuously snowy in January and February (Section II). Leading up to this New Year spell snow was frequent on high ground in Scotland all through November and was rather widespread in December between 4th–6th and 27th–30th. In March snowfall was in the character of an aftermath of the hard winter, and was not heavy. A warm and luxurious spring rapidly developed.

1940–41—DECEMBER, JANUARY, FEBRUARY, MARCH.

Though rather milder in the south this season was about as severe as the previous one in the north where it was extremely snowy. The December falls were again preliminary to the great snowstorms of January and February. Finally the latter part of March brought a major blizzard to northern Scotland. (Section II).

1941–42—JANUARY, FEBRUARY, MARCH.

Though snow fell at the end of October as far south as London it was not conspicuous during November and December except locally in the north. The main falls were in January and February, again, and the beginning of March. This season's snowfall was largely concentrated on the eastern side of Britain where the weather was decidedly colder than in the west (Section II).

1942–43—*December, January, May.*

This was the least snowy season of the decade and is marked as " snowless " within the defined meaning. Apart from the ordinary winter snowfalls, which always in some measure affect the higher altitudes in this country, there was only one attempt at general snow, namely in late December and early January. This, however, was not heavy though in Perthshire and Aberdeenshire it was substantial and villages suffered serious drifting. But as though to emphasize the erratic behaviour of snow in these islands this snowless winter was followed by a phenomenal May snowstorm—by far the most notable in late spring since 1935. On the 8th snow fell thickly all over Scotland, northern England and Northern Ireland, lying in places well down on the sea coast, and covering even the lesser Hebridean islands. A severe northerly gale with gusts in exposed places up to 80 miles an hour piled the snow in drifts many feet deep in Aberdeenshire where many sheep and even cattle perished, especially on Upper Deeside. The depth of snow was given as 6 inches at Douglas, Isle of Man, and 3 inches at Duntuilm, Isle of Skye. The storm, though unusually severe for May, was, however, much exaggerated according to comments which happened to reach the writer. It was even described as one of the worst snowstorms ever known in Scotland in *any* month let alone May. It was certainly one of those big late spring snowstorms which are bound to occur now and again in a northerly country like Scotland. But short, indeed, must be the weather memories of persons who could compare the passing storm of May 1943 to the protracted Highland visitation of May 1923, not to mention the great winter blizzards whose number, of course, is legion.

1943–44—*February.*

The only noteworthy snowfall during this second snowless season came in February, between 3rd and 10th and between 25th and 29th. The latter snowfall was very heavy all over Scotland, north-east and north midland England. In Caithness and the far north there were drifts 6 to 12 feet deep. Heavy drifting was also reported from Skye and Argyll, where the mountain roads were blocked. Around Balmoral and Braemar, in

Aberdeenshire, nine inches of snow fell on the 26th and as much again on the 27th. In England the snowfall was most severe in Nottinghamshire, where the general depth of snow lying on the 27th was about a foot.

1944–45—NOVEMBER, DECEMBER, JANUARY. The last winter of this decade ranks as a snowy one not only because of the severe conditions in January but also because these were preceded by copious snowfall in November and December. In the first half of November snow fell fairly generally in the north and lightly here and there in the south. The Lake Country mountains and Snowdonia were heavily covered. In the first week of December there was heavy drifting snow on the northern moors. But after the widespread and deep snows of January (Section II) there is little more of importance to report, the late winter and spring having been very warm. Yet such is the waywardness of our climate that the hot weather of April suddenly gave place at the close to damaging frosts with decided snowfalls extending into the first few days of May. It is very rare round London to be able to compare the whiteness of hawthorn and snow together as one could on the morning of Sunday, April 29th, inasmuch as an April hawthorn is itself phenomenal even in the south of England. As an oddity in this season's snowfall mention should be made of the curious thunderstorm which crossed London on the afternoon of Saturday, February 10th. After a fine sunny morning with W. wind the sky began to lower into cloud forms of wild and picturesque beauty. A preliminary hail shower was soon succeeded by rather protracted and violent, though not very frequent, thunder and lightning and heavy precipitation consisting first of hail, then of large soft lumps of ice and finally of thick wet snow which settled on the ground as slush. The second stage was so freakish that when a passing pedestrian at Hampstead inquired of the writer whether it was snow or hail he could only reply " neither or a little of each ".

(Thus in the above Chronicle 7 seasons appear as snowy, 2 as snowless and 1 as ordinary in the sense defined.)

SECTION II—SNOWY PERIODS AND INTENSE SNOWSTORMS

In the decade under review 11 months stand out conspicuously as the most snowy taking the country as a whole, namely, March 1937, December 1937, December 1938, January 1939, January 1940, February 1940, January 1941, February 1941, January 1942, February 1942, and January 1945. Among the large number of what might be called intense individual snowstorms it is less easy to decide the worst, though these would undoubtedly include the following six : mid-March 1937, end of January 1940, third week in February 1941, third week in January 1942, end of March 1941 and end of January 1945. All of these, except that of March 1941, occurred in the snowy months cited. Hence it seems appropriate to describe these periods in chronological order.

March **1937** :—This was the first really snowy March experienced in the British Isles since 1931 but the quantity of snow which fell was much greater. The spell of some three weeks' duration during which local snowfalls occurred daily was emphasized by two widespread blizzards. The first, ushering in the spell on the 27th and 28th of February, developed very suddenly with a northerly gale associated with depressions forming in polar air—a type of weather prolific of copious snowfall in these islands. Snow fell in all parts and was over a foot deep in many parts of Scotland and northern England with huge drifts. A week later, around the 7th, heavy snow fell in the south of England including London, rendering locomotion very difficult in the Chiltern Hills and other hilly

tracts of country. In another week, between the 11th and 13th came the culminating storm—cited above as one of the six greatest of the decade. This easterly blizzard raged most fiercely over southern Scotland, northern England, the Isle of Man and Northern Ireland. Large numbers of sheep were caught out on the hills and buried in the gigantic drifts, some perishing, others surviving the ordeal. Perhaps the greatest intensity of the storm, at any rate at the lower levels, was in Ulster where traffic by road and rail was brought to a stand-still. It was observed that the snow lay deeper on the eastern or windward shore of Lough Neagh than on the western, the fact being attributed by a writer in the *Meteorological Magazine* to the melting of part of the snow by warmer air over the open lake. But in such circumstances a much more probable explanation is mass-drifting ; the snow was sweeping in huge clouds into the eastern side of the Lough and had no opportunity to settle close to the lee or western shore. The weather moderated after this storm, but remained bleak over the very early Easter, with sharp frosts at night and bitter snow squalls by day.

In country districts life became not a little exciting during this Arctic prelude to spring in 1937. Even *Punch* had to take up the cue affording comments and cartoons which will remain an entertaining witness to the vagaries of our climate !

December **1937** :—The year closed with the snowiest December since 1927, the year of the famous Christmas blizzard in the south. The snow arrived early in the month in a spell rather shorter than that of March 1937, but no less intense over the country as a whole.

The first of the heavy snowstorms came to Scotland and the north of England on the 4th and these were renewed on the 7th. On this date too, a blizzard swept the southern and south-western counties of England from Hampshire to Cornwall. This was most intense in mid-Wessex. From one to two feet of snow lay over the New Forest and Salisbury Plain. The ancient little Dorset town of Shaftesbury on its picturesque Greensand height was completely isolated. There was also much snow in Ireland about this time. Between the 10th and 15th blizzards accompanied by severe cold occurred daily in various parts of Scotland, Wales and northern England including the Peak of Derbyshire. Two fatal railway disasters were grim episodes of these blinding snowstorms in Scotland. The period came to an end on the 19th with sporadic snowfalls. On that date it snowed thickly for a time in London which, however, escaped all the heavy falls. Afterwards the weather turned mild and damp. At noon on Christmas Day a fog of astonishing density, with visibility limited to a few yards, suddenly enveloped the northern districts of London lasting well into the night.

December **1938** :—The snowy spell of this month was shorter than that of the previous year but of more general severity, and it fell much later in the month, being quite sharply limited to the period 18th to 26th. As it thus embraced the Christmas period as well as the London area, it is likely to be remembered by many more people than the snowy spell of twelve months before. At sea-level the snowfall was heaviest on the eastern side of Britain where the cold was most intense, the accumulated depth on Christmas Day on this side of England and Scotland being about a foot. But on elevated ground in the west and in Ireland more than two feet of snow fell as, for instance, on Exmoor and Dartmoor.

In the metropolis there was something singularly impressive in the onset of this invasion of Continental cold during the darkest days of the year. Friday the 16th had been a very wet gloomy day with light easterly wind giving an inkling of what was to come. Next day a sharp rise of pressure over northern Europe strengthened the N.E. current, which by evening had become snow-cold in the S.E. of England. Sunday the

18th was memorable for the bitter N.E. gale with the temperature at 30° and preliminary dustings of snow. Subsequently snow fell daily in London in varying quantity up to and including the 26th, but the most notable snowfall came on the 20th and 21st, when at times for an hour or two on end the dry whirling snow-flakes fell so densely as to obliterate the view from windows. As these days were intensely cold, the maximum temperature on the 20th not exceeding 25°, the snow lay as readily in Central London as in the suburbs—to a fairly uniform depth of 5 or 6 inches. The scenic effects in the parks, squares and more secluded streets of the metropolis were very fine and not without romantic appeal to snow lovers. In fact in the completeness of the pure white carpet and in the decking of the trees the scene was true in every detail to the conventional Christmas card. No other year of the present century has so far brought to London such a genuine example of the Old-fashioned Dickensian Christmas, for in 1906 the snow did not fall till late on Christmas night, in 1908 it did not come till the 27th and in 1927 after a complete thaw of several days the blizzard did not swoop down till Christmas evening following rain.

But in the country the "seasonable" weather could not always be viewed with the same complacency as in town. Thus in the Chilterns there were outlying villages and farms which, according to Mr. E. L. Hawke, went short of provisions. In the downland of east Kent, villages and hamlets had even grimmer experiences. Christmas visitors to St. Margaret's Bay found themselves completely marooned by great snowdrifts, and after suffering considerable privation were only able to return to London by taking boat to Deal.

January **1939** :—This was a somewhat freakish January with copious snowfalls in weather which, except in the north, was never really cold for the season. In fact it was only just sufficiently cold to permit of snowfall, which in a sense may be said to have come just because January is the coldest month of the year. Relatively to the normal the weather in the west was colder than in the east (just the reverse of December 1938), so that the distribution of actual temperature was more even than usual. This regime was associated with a cold changeable westerly type of weather and, with the influx of polar air, down came the snow. The fall was widespread in the north and west during the earlier part of the month, but the most spectacular individual storm was the blizzard which swept southern England and South Wales on the night of the 25th as a depression moved up the Channel drawing the wind temporarily into the north-east. On the elevated ground in the west, such as Dartmoor and the Brecon Beacons, the snowstorm was very intense, in consequence, no doubt, of orographic effect, but at the lower levels the snow lay deepest farther to the east. Thus in Berkshire, Hampshire and Wiltshire many places had nearly two feet and at the Hampstead observatory 14 inches were measured on the morning of the 26th. This depth was locally considerably greater than that of the Christmas snowfall ; but because the weather was not, as it was then, really cold, there were only 2 or 3 inches of slush in Central London—a remarkable contrast in comparison with December 1938. The weather, however, was cold enough to hold drifts on the higher ground for a long time. Thus on Bison Hill near Whipsnade Zoological Gardens in the Chilterns a great drift, according to Mr. Hawke, did not disappear till February 28th after a mild sunny month. He points out that this is a regular "drift-spot".

January–February **1940** :—The first of three consecutive very cold winters brought considerable snowfall. These commenced towards the end of December, but did not become at all general till the onset of the acute phase of the frost in the middle of January. On the 17th a heavy fall of snow

occurred in the extreme south. Thus at Eastbourne the amount lying was one foot, and on Dartmoor the depth was stated to be very great. During the last week-end of the month, the 27th and 28th, there developed over a large part of the kingdom the greatest blizzard of the decade and one of the worst of the century. It affected most of Scotland and northern, midland, eastern and south-eastern England, but the area of greatest intensity apparently embraced the counties of Yorkshire, Derbyshire, Cheshire and Lancashire, especially the last-named. Within this area many places had two feet of snow. In west Lancashire conditions were extraordinary. Pedestrians in Liverpool and Southport floundered about with snow up to their waists, and an L.M.S. express was buried in a drift near Preston. The dry snow was driven along by a fierce easterly wind, and it is thought that mass-drifting from the elevated moorlands of Rossendale Forest and other outlying spurs of the Pennines enhanced the stress of events in the lowlands of Lancashire and Cheshire. The Peak of Derbyshire, needless to say, had a terrible time, and in Sheffield where the snowstorm was very severe the footways became so clogged with accumulations of frozen snow as to be unusable for weeks. The blizzard extended south-westward to the Malvern Hills and south-eastward to the Chiltern Hills where, according to Mr. E. L. Hawke, cuttings had to be made through the huge drifts forming great snow-cliffs on either side. Here conditions much resembled those of January 1881. In Kent and east Sussex the snowfall between 28th and 30th was also extremely heavy again just as it had been a fortnight earlier. London which had a snowfall of about six inches lay nearer the fringe of the great blizzard ; for westward of the metropolis through a tract of country mainly embracing the Wessex counties and Gloucestershire there was little or no snow, precipitation taking the form of an icy rain producing sheets of ice on the roads, and causing enormous damage to trees, shrubs and telegraph wires and great destruction of birds, which were frequently frozen to their perches. This ice-storm must have been due to the presence of warmer air aloft on the confines of the great blizzard, and should be regarded as an adjunct of the latter.

Subsequently till the middle of February when the frost finally broke up snowfalls were frequent and widespread, but henceforth, except for a brief aftermath in March, there was no more snow and a warm luxurious spring came on apace.

January–March **1941** :—This middle winter of the cold trio was somewhat less rigorous than 1940 in the south, but if anything more so in the north. January was even snowier taking the month as a whole than in the previous year, for snow was conspicuous right through the month over the entire kingdom. It was particularly heavy and widespread during the third week when large areas from the north of Scotland to the south-west of England became snowbound for a lengthy period on the high ground. Miss Lewis's maps (*Q.J.R. Met.S.* Vol. 69 (1943) pp. 215–19) for the six months January and February of 1940–1–2, show that only in February 1942 was the area with snow lying for 25 or more days greater than in January 1941. In London the month brought several substantial snowfalls but there was nothing outstanding.

The chief event in February and, indeed, of the entire season, was the blizzard in the north-east of England and south-east of Scotland between the 18th and 20th. It was just as severe, though much more restricted in area, than the storm of 1940 and was occasioned by the northward travel of a depression, which had brought a devastating tempest in Spain and Portugal, to the North Sea where it encountered a barrier of intensely cold Arctic air. The frontal convergence produced an intensity of snowfall in N.E. England similar to that of the previous winter in N.W. England. At Consett, about 800 feet up on the Durham moors, the depth

of snow undrifted was stated to be four feet, a quantity of much the same order as on Dartmoor in March 1891, and February 1929. This great blizzard of February 1941 in Northumberland, Durham and Yorkshire was probably the worst in this district since that of March 1888, but big drifting snowstorms being relatively so common in this part of England the comparison is made with reserve.

The snowy spell of this season was in effect lengthened after an interval by the furious storm which bore down on the far north of Scotland from the Icelandic region on March 26th and 27th. Sutherland, with adjoining parts of Caithness and Rosshire, appears to have been the region of greatest intensity. Here all roads were blocked, and at Tain there was a level fall estimated at nearly three feet with deep drifts. It was stated to be the most severe snowstorm since 1879–80, but again the comparison should be taken with caution, for this is bleak country with very tardy springs and weather memories are notoriously short.

January–February **1942** :—This third successive cold winter was characterized by steady rather than very intense frost all the time from the end of December to the beginning of March ; but the weather was decidedly more severe in the east than in the west. Partly for this reason and partly because the general rainfall was relatively to the normal rather heavier in the east the snowfall was much more accentuated on this side of Britain. Miss Lewis's maps show that in February 1942 there was a large area in the north-east and east—larger even than in January 1941—where snow lay for more than 25 days. Even in east Kent it lay for more than 20 days in February, whereas in Devon and Cornwall, where the weather was abnormally dry, hardly any snow fell even on Dartmoor. As these figures for snow-lying refer only to places at slight altitudes above sea-level the severity of the conditions at the higher mountain levels in the Cairngorms and elsewhere in Scotland and northern England can readily be imagined. In London and other places in the south-east of England snow fell more frequently than in any winter since 1916–17, the total number of days at Hampstead being 48 as compared with 61 in the earlier year.

January 1942 vied with January 1940 and February 1941 in bringing one of the most notable blizzards of the century. The storm came on the 19th and 20th as a depression from the south-west met with a barrier of very cold air, and in many respects was a replica of that of January 28th–30th, 1940. Although there was no peripheral ice-storm in Wessex or elsewhere, and although the general intensity may have been slightly less than in 1940, the area affected in Scotland, northern and eastern England seems to have been even greater. Practically all Scotland and parts of northern England had between 1 and 2 feet of snow, but in the Midlands and south including London the amount was only about half a foot. In Liverpool and along the Lancashire coast experiences were similar to those of January 1940. It is much to be regretted that the late Mr. Baxendell, who had repeatedly drawn attention to the deficiency of snow at Southport in recent years, should not have lived to witness these two great Lancashire snowstorms coming immediately, as it were, after his death.

February came in with very heavy snowfalls in northern parts, and there were also substantial falls in Kent and in London. The writer at Hampstead remembers on Sunday the 1st, a most wintry day, being impressed with the beauty of the unsullied snow which lay about eight inches thick.

January **1945** :—Christmas 1944 in the south and east of England was a white one through thick hoar-frost, rime and a little snow drizzle precipitated from dense fog. It proved the prelude to the cold and snow of the New Year. The first half of January brought moderately cold weather with frequent snow, locally heavy as in Northumberland on the

9th when the depth recorded at Bellingham was two feet. The second half of the month led on to intense frost with some of the biggest snowstorms in recent years.

These snowfalls, which were developed in a complicated system of depressions moving south-eastward in polar air, appear to have come in three main storms, namely the 18th–20th chiefly felt in the Scottish Highlands, the 22nd–25th mostly in South Wales and south-west England and 29th–30th heaviest in northern England and southern Scotland.

The first storm was a typical midwinter blizzard sweeping the north and east of Scotland. The gale, however, was exceptionally severe causing much damage with loss of life. Snowdrifts 20 feet deep were piled up in many places.

The second snowstorm raged on both sides of the Bristol Channel. The snow was over two feet deep over much of Glamorganshire and over one foot fairly generally in Devonshire. In Cardiff and district where the accumulated depth on the 25th was 30 inches, normal business life was suspended. At Okehampton on the northern skirts of Dartmoor there was stated to be little drifting, but a greater depth of snow than at any time since February 1895. This, however, may be questioned since at Ashburton on the southern flank of the Moor there was an enormous snowfall, similarly without drifting, in February 1929. It is significant that the cold was very intense in the region embraced by this heavy snowfall, the night minima falling near zero in the screen more generally than in the eastern parts of England.

The last of the snowstorms, which immediately preceded a sudden and complete thaw on the 30th, was general, but heaviest on either side of the Border, places as far apart as Edinburgh and Harrogate having nearly a foot.

The *Monthly Weather Report* for January indicates a high frequency of snow—20 days in the north and 10 in the south being quite typical figures. In parts of Scotland it lay on the ground almost the month through.

Research on British Snowfall during the decade.

During the decade under review more attention has been given to the study of snowfall in the British Isles than at any time previously. It happened that in 1936 the present writer was invited to prepare a paper on the subject for a meeting to be held in Edinburgh in September of the International Commission of Snow and Glaciers, International Association of Hydrology, International Union of Geodesy and Geophysics. He chose as his subject a discussion of the various problems presented by the mass-drifting of snow particularly as bearing on the permanent or semi-permanent snow-beds in the Highlands of Scotland. In Edinburgh it was decided by the British delegates to the said Commission to form an Association for the Study of Snow and Ice under the Chairmanship of Mr. Gerald Seligman. The Association, which has now matured into the British Glaciological Society, has not neglected the subject of snowfall in this country amid the wider scope appropriate to such a body, and in the years 1937–39 organized a preliminary survey of snowfall in the British hills. This yielded some useful information which was embodied in the Association's periodical reports before the outbreak of war temporarily suspended its activities. Subsequently Mr. Gordon Manley worked up the mass of statistical data contained in the Monthly Weather Reports of the Meteorological Office for a valuable series of papers on snow frequency and snow-lying in the British Isles. Also Miss L. F. Lewis has compiled useful maps (quoted in this article) on the duration of snow-lying during the cold winters 1940–1–2.

The chief papers are cited in the following list :—

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